

SDMS US EPA Region V

Imagery Insert Form

Document ID:

165373

Some images in this document may be illegible or unavailable in SDMS. Please see reason(s) indicated below:

X

Illegible due to bad source documents. Image(s) in SDMS is equivalent to hard copy.

Specify Type of Document(s) / Comments:

SITE VISITOR LOGS DECEMBER 7: TOO DARK TO READ
DECEMBER 20, DECEMBER 22 AND DECEMBER 30: TOP AND BOTTOM ENDS
OF PAGES TOO DARK TOO READ

Includes ____ COLOR or ____ RESOLUTION variations.

Unless otherwise noted, these pages are available in monochrome. The source document page(s) is more legible than the images. The original document is available for viewing at the Superfund Records Center.

Specify Type of Document(s) / Comments:

Confidential Business Information (CBI).

This document contains highly sensitive information. Due to confidentiality, materials with such information are not available in SDMS. You may contact the EPA Superfund Records Manager if you wish to view this document.

Specify Type of Document(s) / Comments:

Unscannable Material:

Oversized ____ or ____ Format.

Due to certain scanning equipment capability limitations, the document page(s) is not available in SDMS. The original document is available for viewing at the Superfund Records center.

Specify Type of Document(s) / Comments:

Document is available at the EPA Region 5 Records Center.

Specify Type of Document(s) / Comments:

1678

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION - MILITARY (ER 415-1-302)	THE OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	060
PROJECT Solutia Sauget Area 1 Sauget, IL	DATE	01 December, 99
	CONTRACT NO.	
CONTRACTOR O'Brien Gere	WEATHER	Cloudy, Temp. 55°F
<p>CQC Inspection phases attended and instruction given:</p> <p>1) Downgradient Alluvial Aquifer Sampling: AA-GHL-S1(92-96), (102-106) and AA-GHL-S2(82-86)</p> <p>2) Fill area waste sampling: Waste-N-B2 completed at 16 feet Begin Waste-N-B3</p>		
<p>Results of QA inspections and tests, deficiencies observed, actions taken and corrective action of contractor. Include comment pertaining to contractors CQC activities.</p> <p>1) Alluvial Aquifer sampling is taking a lot of time. The turbidity is not going below 5 NTU's as required in the FSP so purging continues for two hours at each interval before samples can be taken.</p>		
<p>Verbal instruction given to contractor: (Include names, reactions and remarks)</p> <p>1) None</p>		
<p>Has anything developed on the work, which might lead to a change order or finding of fact? <u>NO</u> YES</p>		
<p>Information on progress of work, causes for delays and extent of delays, weather, plant, material, etc.</p> <p>1) Extending beyond the site boundaries for soil gas survey poses access issues with several sites --I (village of Sauget), H (Village of Sauget, Rogers Cartage), G (Queeney Rd. & Cerro Copper). OBG will get what they can and Solutia will work on getting access from the appropriate parties.</p> <p>2) Rogers Cartage has denied access to Solutia for any future work.</p>		

Information, instructions or actions taken not covered on QCR report or disagreement:

- 1) Charles Debroski (Weston) Produced a document regarding the crawfish vs. shrimp issue (see attached)

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions From Government personnel. Specify corrective action taken.)

1) None

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.)

Michael McAteer here for a brief visit before heading to Chicago.

INSPECTORS' S SIGNITURE

DATE

SUPERVISOR'S
INITIALS

DATE

12-01-99

Kemper, Erik

From: Gouger, Timothy P NWO [Timothy.P.Gouger@nwo02.usace.army.mil]
Sent: Wednesday, December 01, 1999 10:41 AM
To: kempere@mail.rfweston.com
Subject: FW: Crayfish issue at Solutia

-----Original Message-----

From: Dobroski, Charles J. [SMTP:DOBROSKC@mail.rfweston.com]
<mailto:[SMTP:DOBROSKC@mail.rfweston.com]>
Sent: Monday, November 22, 1999 10:35 AM
To: 'timothy.p.gouger@usace.army.mil'
Cc: Brodman, Steven
Subject: Crayfish issue at Solutia

Tim - as a follow-up to our telephone call last Monday (15 Nov):
Based on my discussions with Steve Brodman (WESTON), I understand that the work plan for the sampling of biological tissue included the collection of crayfish from potentially affected waterbodies on the site. As I understand it, data from this collection are to be used to support a dietary exposure model(s) in the ecological risk assessment. Further, I understand that crayfish collection was not possible due to the absence of crayfish from these waters (I assume that the sampling methods were appropriate). Similarly, crayfish were also absent from the reference waterbody(ies). Assuming that the reference areas are similar to the potentially impacted areas in all characteristics other than contaminant loading (i.e. hydrology, general water chemistry, sediment characteristics, nutrient loading, et al.), the absence of crayfish in both waterbodies suggests a cause that may be due, in large part, to conditions other than chemical contamination. (Note that this does not necessarily exclude chemical contamination as playing some contributing role). Nevertheless, the absence of crayfish at the reference location suggests the lack of some habitat requirement for crayfish that would also hold true for the "affected" waterbodies with similar habitat characteristics.

As a consequence, the use of crayfish as a prey species for the target receptors using these waterbodies as foraging habitat is probably inappropriate provided that their absence was not a seasonal phenomenon, i.e. could crayfish utilize these waters under higher flow conditions, say in spring ?

I understand that the collection of freshwater shrimp is being used to satisfy the forage base of the dietary model. The use of these data should be ok provided that the shrimp represent a significant prey item in the target receptor's diet. I would suggest that Solutia provide information to that effect. It is also important to understand the significance of shrimp relative to the trophic transfer of COPCs in those waterbodies. A less significant prey species with a higher bioaccumulation potential could possibly result in a greater exposure and consequent risk.

Please let me know if I can be of further assistance,

Charles J. Dobroski, Jr
Life Systems Department
Roy F. Weston, Inc.
610-701-7216

dobroskc@mail.rfweston.com <mailto:dobroskc@mail.rfweston.com>

DAILY WORK LOG

DATE 01 DEC 99

PROJECT NAME Solutia - Saugee Area 1 PROJECT LOCATION S.R.N. + W. of G
 WEATHER Clear PRECIPITATION None TEMPERATURE ~55°F
 NUMBER OF HOURS WORKED 6.2 NUMBER OF EMPLOYEES 6

1. ITEMS WORKED ON (ITEM NO., DESCRIPTION, STA. TO STA., FOREMAN)

2. INSTRUCTIONS RECEIVED FROM SOLUTIA

3. INSTRUCTIONS RECEIVED FROM USEPA

4. DEVIATIONS

5. VISITORS (NAMES & TITLES)

6. EQUIPMENT

7. LUNCH MEETING COMMENTS:

8. UNUSUAL EVENTS (FIRE, FLOOD, STORM, LABOR DISPUTES, ETC.)

9. REMARKS:

1.) Collect ground water samples AA-GHL-S1-(92-96)FT & (102-106)FT & (112-116)FT-MS,
 & (12-106)FT-MSD, & (92-96)FT-ED, AA-GHL-S2-(82-86)FT

Collect soil samples: WASTE-N-B2-(14-16') & (14-16')-MS/MSD & B2-comp
 & B2+comp-MS/MSD; WASTE-N-B3-(3-4') & (3-4')ED & B3-comp
 & B3-comp-ED

2.) none

3.) none

4.) none

5.) none

6.) 2 PID's, 2 400s, meters, 2-RAM meters, 1 pH/T/C, 1-Turbidity

7.) none

8.) none

9.) none

Given to Weston 12/1/99 1900

IF ADDITIONAL SPACE IS REQUIRED,
 RECORD ON REVERSE SIDE

William E. Light

PRINTED NAME / SIGNATURE OF PREPARER / DATE

WORK FORECAST

Work Forecast for the day/week: 02 DEC 99

Date: 01 DEC 99

Project Name: Solutra - Sanget Area 1

Project Location: SIRN + W. of G

Company Name: O'Brien + Gere

1. List Work Items and Locations Scheduled for Next Day/Week:

• Continue waste borings at Site N

• Continue downgrad. alluvial ag. samp ~~at~~ W. of Site G

O'Brien + Gere 12/1/99 (01 DEC 99)

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

DET Howardink / DCB / 01 DEC 99
Name/Signature/Date of Preparer

WORK FORECAST

Work Forecast for the day/week: 06 DEC 99

Date: 01 DEC 99

Project Name: Solutra - Saugeat Area 1

Project Location: Saugeat / Cahokia

Company Name: O'Brien + Gere

1. List Work Items and Locations Scheduled for Next Day/Week:

- Continue downgradient alluvial aquifer sampling W of Site 6 and begin on Site 1
- Begin slug testing in fill areas
- Begin creek sediment sampling (potential)

SUBMITTED TO LARSON 01 DEC 99 C 1615

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

DE Hurdink / DE Hurdink / 01 DEC 99
Name/Signature/Date of Preparer

SAFETY MEETING FORM

(Down gradient alluvial aquifer sampling)

DATE 01 Dec 99

CONDUCTED BY / COMPANY: DE Haverdink / O'Brien + Gere

PROJECT NAME Solutra - Sauger Area 1

PROJECT LOCATION W. of G

WEATHER clear

PRECIPITATION none

TEMPERATURE -30°F


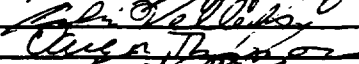
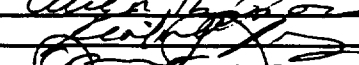
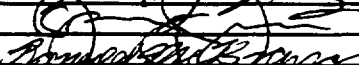

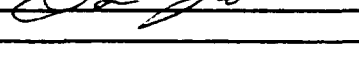

NUMBER OF HOURS WORKED —

NUMBER OF EMPLOYEES —

1. SCHEDULED WORK:
2. REFERENCES TO APPROPRIATE SECTION OF FSP & HASP:
3. HEALTH AND SAFETY ISSUES WITH SCHEDULED WORK:
4. SPECIFIC HEALTH AND SAFETY ISSUES REQUIRING ATTENTION:
5. COMMENTS:

- ① Down gradient alluvial aquifer sampling
- ② FSP # 5.9 ; HASP # 2.6 (generally applicable - not installing wells)
- ③ Potential contact with VOCs, combustible gases, splashing of water, electric shock, muscle strain, slips/trips/falls, noise, contact w/irritant plants
- ④ PPE is modified level D with air monitoring in breathing zone using PID + CGM; respirator on hand if upgrade to level C is necessary
- ⑤ Segregate wastes and document appropriately on waste tracking log; smoking in support vehicles only; drive with caution around field office; notify Kimberly prior to moving to S3 (by Hankins property)

ATTENDANCE:

EMPLOYEE NAME (print)	EMPLOYEE SIGNATURE	COMPANY
Ken L. Lortz		MALIBRICK
Colin W. Llewellyn		OBG
Dale Thompson		OBG
Kimberly Perry		Solutra
Jimmy Lewis		CARDKIN P.D.
Ron McBrayer		FPS
Dan Lortz		IPS

SUBMITTED TO WESTON 01 DEC 99 @ 1615

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

DE Haverdink / DE Haverdink

PRINTED NAME / SIGNATURE OF PREPARER

01 Dec 99

DATE

**SAFETY MEETING FORM
(WASTE BORINGS)**

DATE 01 Dec 99

CONDUCTED BY / COMPANY: DE Haverdink / O'Brien & Gere

PROJECT NAME Solutra - Sauget Area 1 PROJECT LOCATION Site N

WEATHER Clear PRECIPITATION none TEMPERATURE -30°F

NUMBER OF HOURS WORKED NA NUMBER OF EMPLOYEES NA

1. SCHEDULED WORK:
2. REFERENCES TO APPROPRIATE SECTION OF FSP & HASP:
3. HEALTH AND SAFETY ISSUES WITH SCHEDULED WORK:
4. SPECIFIC HEALTH AND SAFETY ISSUES REQUIRING ATTENTION:
5. COMMENTS:

- ① Waste borings @ Site N
- ② FSP # 5.3 ; HASP # 2.4
- ③ Potential contact with hazardous materials and wastes from the boring ; drill rig hazards of overhead falling objects, moving parts, pressurized lines, noise, CO from exhaust, and roll-over ; breathing of impacted dust or vapors ; splashing of impacted liquid from the boring or during decan ; slips/trips/falls
- ④ PPE is level C with level D on-hand ; air monitoring with PID, 4-gas, and RAM ; upgrade / downgrade PPE based on air monitoring ; resp. cartridges are OV/PD00 ; driller to inspect rig daily for hazards and repair as needed
- ⑤ Smoking is in vehicles only, outside of exclusion zone ; segregate wastes ; sign in & out on the visitors log ; drive carefully around field etc.

ATTENDANCE:

EMPLOYEE NAME (print)	EMPLOYEE SIGNATURE	COMPANY
<u>Ken LaFayette</u>	<u>[Signature]</u>	<u>MAURERICK</u>
<u>Jimmy Jones</u>	<u>[Signature]</u>	<u>CANOKIA P.D.</u>
<u>Barthman</u>	<u>[Signature]</u>	<u>Layne</u>
<u>William E. Wright</u>	<u>[Signature]</u>	<u>OSD</u>
<u>Dale Mahurin</u>	<u>[Signature]</u>	<u>Layne Western Co.</u>
<u>Robert J. Perry</u>	<u>[Signature]</u>	<u>Sol-Tier</u>
<u>Tony Finck</u>	<u>[Signature]</u>	<u>OSG</u>

SUBMITTED TO WESTON 01 DEC 99 @ 1615

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

DE Haverdink / DE Haverdink
PRINTED NAME / SIGNATURE OF PREPARER

01 Dec 99
DATE

Solutia Inc.
Sauget Area 1
(Please Print)

1. With Low -
Sampling

[illegible]

Solutia Inc.
Sauget Area 1
(Please Print)

[illegible]

Dec 1

Dewatered Sampling at

-52

AA-GHL-S1 92-96 + 102-106 feet

AA-GHL-S2 82-86 feet

photos

I

are

the

to

we

had

While dewater at site N R2
 was completed to 16 feet where they
 hit native soils there are no
 PID readings so far at any location
 on site N most of the fill appears to
 be construction debris - wood, brick
 concrete etc.

Mike Muller stepped by before leaving
 for Chicago

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION - MILITARY (ER 415-1-302)	THE OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	061
PROJECT Solutia Sauget Area 1 Sauget, IL	DATE	02 December, 99
	CONTRACT NO.	
CONTRACTOR O'Brien Gere	WEATHER	Cloudy, Temp. 60°F
CQC Inspection phases attended and instruction given: 1) Downgradient Alluvial Aquifer Sampling: AA-GHL-S1(107-111) and AA-GHL-S2(92-96), (99-103) 2) Fill area waste sampling: Waste-N-B4 completed		
Results of QA inspections and tests, deficiencies observed, actions taken and corrective action of contractor. Include comment pertaining to contractors CQC activities. 1) Alluvial Aquifer sampling is taking a lot of time. The turbidity is not going below 5 NTU's as required in the FSP so purging continues for two hours at each interval before samples can be taken.		
Verbal instruction given to contractor: (Include names, reactions and remarks) 1) None		
Has anything developed on the work, which might lead to a change order or finding of fact? <u>NO</u> YES		
Information on progress of work, causes for delays and extent of delays, weather, plant, material, etc. 1) Extending beyond the site boundaries for soil gas survey poses access issues with several sites --I (village of Sauget), H (Village of Sauget, Rogers Cartage), G (Queeney Rd. & Cerro Copper). OBG will get what they can and Solutia will work on getting access from the appropriate parties. 2) Rogers Cartage has denied access to Solutia for any future work.		

Information, instructions or actions taken not covered on QCR report or disagreement:


1) None

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions From Government personnel. Specify corrective action taken.)

1) None

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.)

Progress report with Tim an Mike (see attached)

INSPECTORS'S SIGNITURE	DATE	SUPERVISOR'S INITIALS	DATE
	12-02-99		

Issues at Sauget Area 1
December 02, 1999

- Finished creek transect soil sampling at all 7 areas
- 3 of nine downgradient alluvial aquifer samples finished
- Moved the three sample locations near EE-05 North 100 ft. because of access issues
- Waste Boring will continue begin at site N the 29th or 30th
- Have asked Solutia to get me all data for - Soil Gas Survey, Mag Survey, Boring Logs, And Development Logs.
- Holiday work Schedule

Tasks Not Completed

	FSP section	# Samples
1. Boundary Trenching Sites G, N	5.1	###
2. Soil Gas Survey Sites H, I	5.2	###
3. Buried Drum And Tank I.D.	5.5	4
4. GPR Site I	NA	1
5. Ground Water Sampling	5.8, 5.9, 5.10, 5.16	75
6. Slug Tests	5.14	15
7. Developed Area Soil Sampling	5.18	44
8. Background Soil Sampling	5.19	6
9. Dead Creek Sediment Sampling	5.20	150
10. Pilot Test Sampling	5.23	###

DAILY WORK LOG

DATE 12/2/99

PROJECT NAME Solutia-Sauget Area 1 PROJECT LOCATION SikN, W. J. H. L
 WEATHER cloudy, 60°F PRECIPITATION none TEMPERATURE 61°F
 NUMBER OF HOURS WORKED 54 NUMBER OF EMPLOYEES 5

1. ITEMS WORKED ON (ITEM NO., DESCRIPTION, STA. TO STA., FOREMAN)
2. INSTRUCTIONS RECEIVED FROM SOLUTIA
3. INSTRUCTIONS RECEIVED FROM USEPA
4. DEVIATIONS
5. VISITORS (NAMES & TITLES)
6. EQUIPMENT
7. LUNCH MEETING COMMENTS:
8. UNUSUAL EVENTS (FIRE, FLOOD, STORM, LABOR DISPUTES, ETC.)
9. REMARKS:
 - 1.) collected - soil samples waste - N-B4-(0.5)FT & (0.5 FT)-FD & B4 Comp & B4-EB Comp-EB, & B4-0.5 FT-EB,
 - collected alluvial aquifer samples: AA-GHL-S1-(107-111)FT; AA-GHL-S2-(62-66)FT (Dioxin) & (92-96)FT & (92-96)FT-EB & (99-103)FT
 - 2.) none
 - 3.) none
 - 4.) none
 - 5.) none
 - 6.) 2 PID; 2-RAM; 2-Gas; 2 Hydac, 2 Turbidity
 - 7.) none
 - 8.) none
 - 9.) none

Given to Weston 12/2/99 1805

IF ADDITIONAL SPACE IS REQUIRED,
 RECORD ON REVERSE SIDE

William F. Wright / William F. Wright
 PRINTED NAME / SIGNATURE OF PREPARER / DATE

WORK FORECAST

Work Forecast for the day/week: 3 Dec 99

Date: 02 Dec 99

Project Name: Solutia-Saugatucket

Project Location: Site N, N. 7th, Cerro Copper

Company Name: O'Brien & Gere Engineers

1. List Work Items and Locations Scheduled for Next Day/Week:

- continue geologic aquifer sampling at Cerro Copper or
West of 6th dependent upon weather conditions
- collect grain size analysis samples at site "N"

Given to inspection 12/2/99 1805

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

William E. Wright / William E. Wright
Name/Signature/Date of Report

Solutia Inc.
Sauget Area 1
(Please Print)

Judith Ln

- 6W samp. W-rtG

[illegible]

SAFETY MEETING FORM

(Downgradient alluvial aquifer sampling)

DATE 02 DEC 99

CONDUCTED BY / COMPANY: LE WRIGHT / O'Brien + Gere

PROJECT NAME Solutra - Solutra Area 1 PROJECT LOCATION W. of Site G

WEATHER _____ PRECIPITATION _____ TEMPERATURE _____

NUMBER OF HOURS WORKED — NUMBER OF EMPLOYEES —

1. SCHEDULED WORK:
2. REFERENCES TO APPROPRIATE SECTION OF FSP & HASP:
3. HEALTH AND SAFETY ISSUES WITH SCHEDULED WORK:
4. SPECIFIC HEALTH AND SAFETY ISSUES REQUIRING ATTENTION:
5. COMMENTS:

- ① Downgradient alluvial aquifer sampling
- ② FSP # 5.9 ; HASP # 2.6 (generally applicable - not installing wells)
- ③ Potential contact with VOCs, combustible gases, splashing of water, electric shock, muscle strain, slips/trips/falls, noise, irritant plants
- ④ PPE is modified level D with air monitoring in breathing zone using PID + CGM; respirator on hand if upgrade to level C is necessary
- ⑤ Segregate wastes and document appropriately on waste tracking log; smoking in support vehicles only; drive with caution around field office; use the appropriate entrance to access SS on Harkins property

ATTENDANCE:

EMPLOYEE NAME (print)	EMPLOYEE SIGNATURE	COMPANY
NICHOLAS JENKINS	<i>Nicholas Jenkins</i>	OBG
KEVIN LAKEERTY	<i>Kevin Lakeerty</i>	CAHOKIA P.D.
STEVE PATON	<i>Steve Paton</i>	IPS
DAN LUCI	<i>Dan Luci</i>	IPS
DALE THOMPSON	<i>Dale Thompson</i>	OBG
COLIN VELLEKAMP	<i>Colin Vellekamp</i>	OBG

SUBMITTED BY WESTON 03 DEC 99 @ 1145

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

William E. Wright / William E. Wright
PRINTED NAME / SIGNATURE OF PREPARER

December 2, 1999
DATE

SAFETY MEETING FORM (WASTE BORINGS)

DATE 02 DEC 99

CONDUCTED BY / COMPANY WE WRIGHT / O'Brien + Gere

PROJECT NAME Solutra - Sauger Area 1

PROJECT LOCATION Site N

WEATHER _____

PRECIPITATION _____

TEMPERATURE _____

NUMBER OF HOURS WORKED NA

NUMBER OF EMPLOYEES NA

1. SCHEDULED WORK:

2. REFERENCES TO APPROPRIATE SECTION OF FSP & HASP:

3. HEALTH AND SAFETY ISSUES WITH SCHEDULED WORK:

4. SPECIFIC HEALTH AND SAFETY ISSUES REQUIRING ATTENTION:

5. COMMENTS:

- ① Waste borings @ Site N
- ② FSP # 5.3 ; HASP # 2.4
- ③ Potential contact with hazardous materials and wastes from the boring ; drill rig hazards of overhead falling objects, moving parts, pressurized lines, noise, CO from exhaust, and roll-over ; breathing of impacted dust or vapors ; splashing of impacted liquid from the boring or during decon ; slips / trips / falls
- ④ PPE is level C with level D on-hand ; air monitoring with PID, 4-gas, and RAM ; upgrade / downgrade PPE based on air monitoring ; resp. cartridges are OV/PD00 ; drillers to inspect rig daily for hazards and repair as needed
- ⑤ Smoking is in vehicles only, outside of exclusion zone ; segregate wastes ; ~~sign in/out on the visitors log~~ ; drive carefully around field etc.

ATTENDANCE:

EMPLOYEE NAME (print)

EMPLOYEE SIGNATURE

COMPANY

Ken LaFerty
TONY Finelli
Dale Mahurin
John Phillips
Bill Wright

William F. Wright
Dale Mahurin
John Phillips
Bill Wright

OSG
Layco Wastewater Co.
11 17
OSG

SUBMITTED TO WESTON 03 DEC 99 @ 1145

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

William F. Wright / William F. Wright
PRINTED NAME / SIGNATURE OF PREPARER

December 2, 1999
DATE

Solutia Inc.
Sauget Area 1
(Please Print)

[illegible]

Dec 2

Dewatered Sampling

AA-GHL-S1 107.111 feet
AA-GHL-S2 92.96 - 99.03 feet

ORSG finished Waste Sampling at
site N

Had progress call with Tim and Mike
today

ORSG plans to begin
Sediment Sampling next week

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION - MILITARY (ER 415-1-302)	THE OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
PROJECT Solutia Sauget Area 1 Sauget, IL	REPORT NO.	062
CONTRACTOR O'Brien Gere	DATE	03 December, 99
	CONTRACT NO.	
	WEATHER	Cloudy, Temp. 60°F
CQC Inspection phases attended and instruction given: 1) Downgradient Alluvial Aquifer Sampling: AA-I-S3(24-28) and AA-I-S2(16-20)		
Results of QA inspections and tests, deficiencies observed, actions taken and corrective action of contractor. Include comment pertaining to contractors CQC activities. 1) Alluvial Aquifer sampling is taking a lot of time. The turbidity is not going below 5 NTU's as required in the FSP so purging continues for two hours at each interval before samples can be taken.		
Verbal instruction given to contractor: (Include names, reactions and remarks) 1) None		
Has anything developed on the work, which might lead to a change order or finding of fact? <u>NO</u> YES		
Information on progress of work, causes for delays and extent of delays, weather, plant, material, etc. 1) Extending beyond the site boundaries for soil gas survey poses access issues with several sites --I (village of Sauget), H (Village of Sauget, Rogers Cartage), G (Queeny Rd. & Cerro Copper). OBG will get what they can and Solutia will work on getting access from the appropriate parties. 2) Rogers Cartage has denied access to Solutia for any future work.		

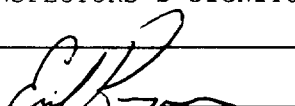
Information, instructions or actions taken not covered on QCR report or disagreement:

1) None

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions From Government personnel. Specify corrective action taken.)

1) None

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.)

INSPECTORS'S SIGNITURE	DATE	SUPERVISOR'S INITIALS	DATE
	12-03-99		

DAILY WORK LOG

DATE 03 DEC 99

PROJECT NAME Solutia - Sauget Area 1 PROJECT LOCATION W. of Site I, field off.
 WEATHER Cloudy PRECIPITATION rain a.m. TEMPERATURE ~60°F
 NUMBER OF HOURS WORKED 54 NUMBER OF EMPLOYEES 7

1. ITEMS WORKED ON (ITEM NO. DESCRIPTION, STA. TO STA. FOREMAN)
2. INSTRUCTIONS RECEIVED FROM SOLUTIA
3. INSTRUCTIONS RECEIVED FROM USEPA
4. DEVIATIONS
5. VISITORS (NAMES & TITLES)
6. EQUIPMENT
7. LUNCH MEETING COMMENTS:
8. UNUSUAL EVENTS (FIRE, FLOOD, STORM, LABOR DISPUTES, ETC.)
9. REMARKS:

① - Collected downgradient alluvial aquifer samples AA-I-S3-24-28 FT and AA-I-S2-16-20 FT on Cerro Gordo.
 - Coordinated future activities at the field office

② None
 ③ None
 ④ None

⑤ See attached visitors log

⑥ 2 Geoprobe rigs, H&S equip, sampling & monitoring equip, support vehicles

⑦ None
 ⑧ None
 ⑨ None

SUBMITTED TO WESTON 03 DEC 99 @ 1845

IF ADDITIONAL SPACE IS REQUIRED,
 RECORD ON REVERSE SIDE

DE Haversine / DE Haversine / 03 DEC 99
 PRINTED NAME / SIGNATURE OF PREPARER / DATE

SAFETY MEETING FORM

(Downgradient alluvial aquifer sampling)

DATE 03 DEC 99

CONDUCTED BY / COMPANY: DE Haverdink / O'Brien + Gere

PROJECT NAME Solutra - Sauger Area 1

PROJECT LOCATION W. of Site I (Cerro Copper)

WEATHER overcast

PRECIPITATION rain a.m.

TEMPERATURE ~55°F

NUMBER OF HOURS WORKED —

NUMBER OF EMPLOYEES —

- 1 SCHEDULED WORK:
- 2 REFERENCES TO APPROPRIATE SECTION OF FSP & HASP:
- 3 HEALTH AND SAFETY ISSUES WITH SCHEDULED WORK:
- 4 SPECIFIC HEALTH AND SAFETY ISSUES REQUIRING ATTENTION:
- 5 COMMENTS:

- ① Downgradient alluvial aquifer sampling; field etc. prep. for other activities
- ② FSP # 5.9 ; HASP # 2.6 (generally applicable - not installing wells)
- ③ Potential contact with VOCs, combustible gases, splashing of water, electric shock, muscle strain, slips/trips/falls; noise
- ④ PPE is modified level D with air monitoring in breathing zone using PID + CGM; respirator on hand if upgrade to level C is necessary
- ⑤ Segregate wastes and document appropriately on waste tracking log; smoking in support vehicles only; drive with caution around field office + at Cerro Copper

ATTENDANCE:

EMPLOYEE NAME (print)	EMPLOYEE SIGNATURE	COMPANY
Kimberly Perry	[Signature]	Solutia
Ken Haffert	[Signature]	Harbick
Daren Thompson	[Signature]	ORC
William E. Wright	[Signature]	ORC
TONY FINCH	[Signature]	ORC
COLIN VELLEMAN	[Signature]	ORC
Ron McPrayer	[Signature]	IPS
PAN COITTT	[Signature]	IPS

SUBMITTED TO WESTON 03 DEC 99 @ 0845

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

DE Haverdink / J E Blundell
PRINTED NAME / SIGNATURE OF PREPARER

03 DEC 99

DATE

Solutia Inc.
Sauget Area 1
(Please Print)

[illegible]

WORK FORECAST

Work Forecast for the day/week: 06 DEC 99

Date: 03 DEC 99

Project Name: Solutia - Sault Area 1

Project Location: Hot I, fill areas

Company Name: O'Brien & Gere

1. List Work Items and Locations Scheduled for Next Day/Week:

- Continue downgradient alluvial aquifer sampling West of Site I (S3 + S2)
- Hold prep. inspection meeting for slug tests
- Begin installation of piezometers for slug testing

SUBMITTED TO WESTON 03 DEC 99 @ 1845

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

DE Haverdine / DE Rhoads / 03 DEC 99
Name/Signature/Date of Preparer

Solutia Inc.
Sauget Area 1
(Please Print)

[illegible]

Solutia Inc.
Sauget Area 1
(Please Print)

- slug test inst.

[illegible]

Dec 3

Downgradient Sampling

AA-I-52 - 16-20

AA-I-53 - 24-28

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION - MILITARY (ER 415-1-302)	THE OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	063
PROJECT Solutia Sauget Area 1 Sauget, IL	DATE	06 December, 99
	CONTRACT NO.	
CONTRACTOR O'Brien Gere	WEATHER	Cloudy, Temp. 40°F
CQC Inspection phases attended and instruction given: 1) Preparatory Inspection Meeting for Slug Testing 2) Slug Testing: Installation of well clusters will begin for site H 3) Downgradient Alluvial Aquifer Sampling: AA-I-S2(26-30) and AA-I-S3(34-38), (44-48)		
Results of QA inspections and tests, deficiencies observed, actions taken and corrective action of contractor. Include comment pertaining to contractors CQC activities. 1) Alluvial Aquifer sampling is taking a lot of time. The turbidity is not going below 5 NTU's as required in the FSP so purging continues for two hours at each interval before samples can be taken.		
Verbal instruction given to contractor: (Include names, reactions and remarks) 1) I asked for a Clarification to the FSP section 5.3.3 and App. D (Typical Well Construction) Tim Tedesco (OBG) said he would produce a clarification.		
Has anything developed on the work, which might lead to a change order or finding of fact? <u>NO</u> YES		
Information on progress of work, causes for delays and extent of delays, weather, plant, material, etc. 1) Extending beyond the site boundaries for soil gas survey poses access issues with several sites --I (village of Sauget), H (Village of Sauget, Rogers Cartage), G (Queeney Rd. & Cerro Copper). OBG will get what they can and Solutia will work on getting access from the appropriate parties. 2) Rogers Cartage has denied access to Solutia for any future work.		


Information, instructions or actions taken not covered on QCR report or disagreement:

1) None

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions From Government personnel. Specify corrective action taken.)

1) None

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.)

INSPECTORS'S SIGNITURE	DATE	SUPERVISOR'S INITIALS	DATE
	12-06-99		

PREPARATORY INSPECTION MEETING

Conducted by/Company: Tim Tedesco/O'Brien & Gere Date: 6 Dec 99
 Project Name: Solita Subject Area 1 Task: Slug Testing

1. Scheduled Work:
2. Equipment, Procedures, Personnel:
3. Ref. To App. Sec. of FSP/HASP:
4. Issues that could arise and how to resolve:
5. Solutia comments:
6. EPA comments:

- ① - Install nest of 3 2" diameter stainless steel piezometers at sites G, H, I, L & N
- Depth is dependent on location of the upper fine-grained zone, middle-fine grain zone & lower coarse sand - Project to be at 20', 50' & 80' → 5' stainless steel screens will be installed at the determined depth
 - Install piezometers will be used to perform slug testing
 - Installation will be accomplished by hollow stem auger & use of 1.5" OD continuous split spoon to log geologic formation IAW applicable ASTM standards & specified in FSP S3.
 - Piezometers ~~will be~~ constructed IAW App. D of the FSP & Sect S3
 - D-COR at drilling & soil sample collection eqpt. will be perform prior to initiating drilling, between boring locations & at its completion
 - D-COR will be constructed by drilling contractor at each site → D-COR solids will be placed by drummed soil cuttings
 - Slug tests will be performed IAW FSP Sect. 5.14.3
 - The type of test used will be dependent on screen

ATTENDANCE:

EMPLOYEE NAME (print)	EMPLOYEE SIGNATURE	COMPANY
E. K. Kemp	<i>E. K. Kemp</i>	RF Weston
Kimberly Penn	<i>Kimberly Penn</i>	Solutia
Cecil D. HARRISS	<i>Cecil D. Harriss</i>	HARRISS Drilling
Tom Crank	<i>Tom Crank</i>	HARRISS Drilling
Charles Dutton	<i>Charles Dutton</i>	HARRISS Drilling
Tony Finney	<i>Tony Finney</i>	OBG
Dave Haverstick	<i>Dave Haverstick</i>	OBG
Jack Jenkins	<i>Jack Jenkins</i>	OBG

IF ADDITIONAL SPACE IS REQUIRED,
 RECORD ON REVERSE SIDE

Tim Tedesco/Ly P. Lee
 PRINTED NAME/SIGNATURE OF PREPARED
6 Dec 99

DATE

S. S. H. to Weston 06 DEC 99 @ 1755

location in respect to water table

-- test data will be evaluated before leaving the field to evaluate if test was successful \rightarrow IF NOT \rightarrow reevaluate test location

② PPE, Hollow Stem Auger, ~~PTID~~ ID, RAM, 4 less meters, Pressure transducer connected to data logger, insert solid slugs, timing device, 2 split spoon, ~~open~~ th shanks steel wall casing, S screen, well completion materials

③ ESP section 5.14 of S.3.3

HAND Section 2.6

④ - Having series \rightarrow resolve using 21 methods drilling methods + 23 insert core give additional bearing for geologic information only

~~⑤~~ - Slug Test Ditch not successful \rightarrow Re-design slug test

- Depth does not correspond to required geologic formations

\rightarrow Discuss amongst Project Team to change depth target

⑤ Depth of Screen \rightarrow Plan and use of geologic knowledge to

Download Data \rightarrow Some dry ditch during

1300m Geologic Log \rightarrow Drilling will have confirmatory split spoon at same

⑥ 1-11 area locations - Upgrade out of fill area

Well construction - Corbier in App. B4 verify/text
Flash mounted

DAILY WORK LOG

DATE 06 DEC 99

PROJECT NAME Solutra - Saugeat Area 1 PROJECT LOCATION W. of Site I, S. of Site H

WEATHER partly cloudy PRECIPITATION None TEMPERATURE ~40°F

NUMBER OF HOURS WORKED 4.5 NUMBER OF EMPLOYEES 6

1. ITEMS WORKED ON (ITEM NO. DESCRIPTION STA. TO STA. FOREMAN)
2. INSTRUCTIONS RECEIVED FROM SOLUTIA
3. INSTRUCTIONS RECEIVED FROM USEPA
4. DEVIATIONS
5. VISITORS (NAMES & TITLES)
6. EQUIPMENT
7. LUNCH MEETING COMMENTS:
8. UNUSUAL EVENTS (FIRE, FLOOD, STORM, LABOR DISPUTES, ETC.)
9. REMARKS:

- ① Installed & logged ST-H-D (piezometer for slug testing S. of H, deep interval) to 48 fbg
 Collected AA-I-S2-(26-30 FT), (26-30 FT MS), 26-30 FT MSD; Collected AA-I-S3-(34-38 FT), (44-48 FT)
- ② Slug test locations approved in field by K. Perry
- ③ None
- ④ None
- ⑤ See attached visitors logs
- ⑥ 2 Comprobe rigs for GW samp., drill rig for slug test piez. inst., support vehicles, H+S equip., samp. equip., monitoring equip.
- ⑦ None
- ⑧ None
- ⑨ Encountered heaving sands in ST-H-D; used water through augers to prevent heaving

SUBMITTED TO WESTON 16 DEC 99 @ 1755

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

DE Haversink / DE Haversink / 06 DEC 99
PRINTED NAME / SIGNATURE OF PREPARER / DATE

WORK FORECAST

Work Forecast for the day/week: 07 DEC 99

Date: 06 DEC 99

Project Name: Solutia - Saugat Area 1

Project Location: W. of I, S. of H

Company Name: O'Brien & Gere

1. List Work Items and Locations Scheduled for Next Day/Week:

Continue G61 sampling W. of I (53452)

Continue piez. installation for slug testing S. of H

SUBMITTED TO WESTON 16 DEC 99 @ 1755

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

DE Havedink / DE Howard 06 DEC 99
Name/Signature/Date of Preparer

SAFETY MEETING FORM

(Slag tests)

DATE 06 DEC 99CONDUCTED BY COMPANY DE Harvard / DC Brown + GorePROJECT NAME Solutia - Sauge + Area 1 PROJECT LOCATION W. of Site IWEATHER OvercastPRECIPITATION NoneTEMPERATURE ~35°FNUMBER OF HOURS WORKED —NUMBER OF EMPLOYEES —

1. SCHEDULED WORK:
2. REFERENCES TO APPROPRIATE SECTION OF FSP & HASP
3. HEALTH AND SAFETY ISSUES WITH SCHEDULED WORK
4. SPECIFIC HEALTH AND SAFETY ISSUES REQUIRING ATTENTION
5. COMMENTS

- (1) Slag test piezometer installation
- (2) FSP # 5.14 ; HASP # 2.6 (generally applicable)
- (3) Potential contact with combustible gases, VOCs, impacted water + soil, slips/trips/falls, noise, drilling hazards of over head falls, moving parts, pressurized lines, CO, and weather effects (+ hearing protection)
- (4) PPE is modified level D w/ air monitoring in the breathing zone using PID, CGM, + RAM; respirator on hand if upgrade to level C is necessary; drillers to inspect rig for hazards daily + repair as needed
- (5) Smoking only in vehicles, segregate wastes, drive carefully around the Gold Creek

ATTENDANCE

EMPLOYEE NAME (print)	EMPLOYEE SIGNATURE	COMPANY
Tim Tedesco	[Signature]	OBG
Eric Kasper	[Signature]	AF Work
TONY RUST	[Signature]	OBG
Ken LAFFERTY	[Signature]	MAVERICK
Jim Crank	[Signature]	Harriss
Chad Sutton	[Signature]	Harriss
Cecil HARRISS	[Signature]	HDSI
Kimberly Perry	[Signature]	Solutia

SUBMITTED TO WESTON 06 DEC 99 @ 1755

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

DE Harvard / DC Brown
PRINTED NAME / SIGNATURE OF PREPARER

06 DEC 99

DATE

SAFETY MEETING FORM

(Downgradient alluvial/aquifer sampling)

DATE 06 DEC 99

CONDUCTED BY / COMPANY DE Haverdink / O'Brien + Gere

PROJECT NAME Solutra - Sanger Area 1

PROJECT LOCATION W. of Site I

WEATHER overcast

PRECIPITATION none

TEMPERATURE ~35°F

NUMBER OF HOURS WORKED —

NUMBER OF EMPLOYEES —

1. SCHEDULED WORK:

2. REFERENCES TO APPROPRIATE SECTION OF FSP & HASP:

3. HEALTH AND SAFETY ISSUES WITH SCHEDULED WORK:

4. SPECIFIC HEALTH AND SAFETY ISSUES REQUIRING ATTENTION:

5. COMMENTS:

- ① Downgradient alluvial/aquifer sampling
- ② FSP # 5.9 ; HASP # 2.6 (generally applicable - not installing wells)
- ③ Potential contact with VOCs, combustible gases, splashing of water, electric shock, muscle strain, slips/trips/falls, noise
- ④ PPE is modified level D with air monitoring in breathing zone using PID + CGM; respirator on hand if upgrade to level C is necessary
- ⑤ Segregate wastes and document appropriately on waste tracking log; smoking in support vehicles only; drive with caution around field office; L2100 Comp

ATTENDANCE:

EMPLOYEE NAME (print)

EMPLOYEE SIGNATURE

COMPANY

William F. Wright
Ken Lafferty
Kimberly Perry
Matthew Lindner
Dawn Corbett
Rae McBryer

[Signatures]
William F. Wright
Ken Lafferty
Kimberly Perry
Matthew Lindner
Dawn Corbett
Rae McBryer

O&G
O&G
MGT/CK
Solutra
C. HOFFER RD
J.P.S.
J.P.S.

SUBMITTED TO WASTON 06 DEC 99 @ 1755

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

DE Haverdink / O'Brien + Gere

PRINTED NAME / SIGNATURE OF PREPARER

06 DEC 99

DATE

Dec 6

OTSG and/or Prep Meeting for
Slug Testing

One main issue that I expressed
is the fact that they are being placed
outside the fill areas ~~purposely~~ as to
not drill through waste ~~the~~ plan
call for the installation of these wells
at the fill areas

My comments were expressed to OTSG
+ Solbra and noted on the Meeting
log

OTSG began installation of Slug Test Well
near site H

AA-I-S2 - 26-30

AA-I-S3 - 34-38 + 44-48

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION - MILITARY (ER 415-1-302)	THE OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	064
PROJECT Solutia Sauget Area 1 Sauget, IL	DATE	07 December, 99
	CONTRACT NO.	
CONTRACTOR O'Brien Gere	WEATHER	Cloudy, Temp. 50°F
CQC Inspection phases attended and instruction given: 1) Slug Testing: Continue well cluster for site H 2) Downgradient Alluvial Aquifer Sampling: AA-I-S2(36-40), (46-50) and AA-I-S3(54-58), (64-68)		
Results of QA inspections and tests, deficiencies observed, actions taken and corrective action of contractor. Include comment pertaining to contractors CQC activities. 1) Alluvial Aquifer sampling is taking a lot of time. The turbidity is not going below 5 NTU's as required in the FSP so purging continues for two hours at each interval before samples can be taken.		
Verbal instruction given to contractor: (Include names, reactions and remarks) 1) None		
Has anything developed on the work, which might lead to a change order or finding of fact? NO <u>YES</u> 1) Piezometers for the Slug Tests are being installed outside the fill areas, the FSP section 5.14 indicates they will be installed at the fill areas. This issue has been brought to the attention of Tim Gouger(USACE) and Michael McAteer(USEPA). The Question was also noted during the Preparatory Inspection Meeting on 12-6-99 by Erik Kemper(Weston).		
Information on progress of work, causes for delays and extent of delays, weather, plant, material, etc. 1) Extending beyond the site boundaries for soil gas survey poses access issues with several sites --I (village of Sauget), H (Village of Sauget, Rogers Cartage), G (Queeny Rd. & Cerro Copper). OBG will get what they can and Solutia will work on getting access from the appropriate parties. 2) Rogers Cartage has denied access to Solutia for any future work.		

Information, instructions or actions taken not covered on QCR report or disagreement:

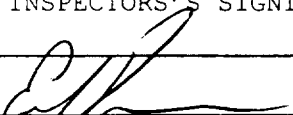
1) None

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions From Government personnel. Specify corrective action taken.)

1) None

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.)

Weekly progress report with Tim and Mike(see attached)

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIALS	DATE
	12-07-99		

SAUGET SITE 1
WEEKLY CONFERENCE CALL NOTES
December 7, 1999
10:00 am

PARTICIPANTS: Mike McAteer, Erik Kemper, Tim Gouger

Prepared by: Tim Gouger

ISSUES

1. Preparatory Inspection for Slug Tests were conducted December 6, 1999. Contractor plans to use rising/falling head tests, one test per Site H, I, G, L, and N. Three piezometers, per slug test, will be installed to 20', 50', and 80' depths to monitor impacts to the aquifer. The Contractor has proposed locating these tests at the periphery of each site. Our concerns include:

The tests will be performed at the periphery of the source areas, in relatively consolidated soils. In contrast, the source areas are largely comprised of unconsolidated debris and wastes. Thus, slug tests will provide hydrogeologic information for a consolidated, rather than an unconsolidated, scenario.

Free product, miscible product will likely be identified in source areas and will be less likely to be found in peripheral areas. How will flow characteristics of waste product/unconsolidated media be accounted for in tests?

Performing the slug tests prior to the waste depth trenching eliminates the usage of the open excavation information to locate strategic slug test areas.

2. Solutia plans to perform the slug tests outside the delineated boundaries for Sites H, I, G, L, and N. For example, Solutia proposes to use the park area, near Well EE-20, for the slug test for Site I instead of performing the test within the Site I boundary. Some explanation is needed. We do not concur with the proposed locations for slug tests.
3. McAteer has received an email from Mike Light. Solutia plans to issue a deviation to the work plan to characterize the Site G boundaries. At this time, they plan to continue westward, towards Weise Engineering. No further action is proposed for the site boundary trench to the south, though it did not extend to the anticipated site boundary during the last effort.
4. McAteer stated not only his concern but also the public's concern for receiving the EECA(s) in January 2001. McAteer inquired about quicker TAT for analytical from transect samples to shorten the schedule. Gouger revisited the schedule issue. Based upon the August 1999 meeting between IEPA, US EPA, Corps, Solutia and their subcontractors, Solutia planned to submit the baseline risk assessment prior to issuance of the EECA as a way to manage what could be exorbitant waste volumes. Subsequent to its approval, Solutia would submit EECAs to perform removal work for all sites. The BRA could be submitted well in advance of the EECAs. Also, some time-critical removals are occurring presently and may continue in the future. McAteer stated he did not necessarily wish to receive the BRA before the EECAs.
5. Menzie Curie plans prepare the ecological samples for analytical in late January, 2000. McAteer requested Steve Brodman's participation.
6. Erik Kemper will prepare a spreadsheet for all split samples. After Gerald Almquist performs data evaluation, validation, the analytical results will be added to the spreadsheet. McAteer will coordinate with Solutia for the same information as a means of direct comparison.
7. Solutia plans to begin sediment sampling the week of December 27, 99.

8. Erik Kemper will be off the 30 December 99. The project will be shut down the 23, 24, 27, 30 and 31 of December, 99.
9. McAteer stated discussions for the TSCA permit are tentatively scheduled for January 4, 2000, at Sauget, Illinois

DAILY WORK LOG

DATE 07 DEC 99

PROJECT NAME Solutra - Sagnet Area 1 PROJECT LOCATION S. of H. W. of I.
 WEATHER partly cloudy PRECIPITATION none TEMPERATURE -50°F
 NUMBER OF HOURS WORKED 60.5 NUMBER OF EMPLOYEES 7

1. ITEMS WORKED ON (ITEM NO., DESCRIPTION, STA. TO STA., FOREMAN)
2. INSTRUCTIONS RECEIVED FROM SOLUTIA
3. INSTRUCTIONS RECEIVED FROM USEPA
4. DEVIATIONS
5. VISITORS (NAMES & TITLES)
6. EQUIPMENT
7. LUNCH MEETING COMMENTS
8. UNUSUAL EVENTS (FIRE, FLOOD, STORM, LABOR DISPUTES, ETC.)
9. REMARKS:

- ① Advanced slug test piezometer boring ST-H-D to 76 fbg
 Collected GW samples AA-E-52-1 (36-40 FT), (46-50 FT), split sample w/
 E. Kemper of Weston at (46-50 FT); collected AA-E-52-2 (54-58 FT),
 (64-68 FT), split sample w/ E. Kemper at (64-68 FT)
- ② None
- ③ None
- ④ None
- ⑤ See attached visitors logs
- ⑥ 2 Geoprobe rigs for GW samp., drill rig, support vehicles, H+S equip., samp. equip.,
 monitoring equip.
- ⑦ None
- ⑧ None
- ⑨ Driller for slug test piez. inst. switched to revert mod rotary methods to prevent
 heaving sands and to collect representative samples for logging

SUBMITTED TO WESTON 07 DEC 99 @ 1800

IF ADDITIONAL SPACE IS REQUIRED,
 RECORD ON REVERSE SIDE

DE Howardink / DE Rhoades / 07 DEC 99
 PRINTED NAME / SIGNATURE OF PREPARER / DATE

Slug tests
S.O.F.H

[illegible]

WORK FORECAST

Work Forecast for the day/week: 08 DEC 99

Date: 07 DEC 99

Project Name: Solutia - Sauget Area 1

Project Location: W. of I. S. of H

Company Name: O'Brien & Gere

1. List Work Items and Locations Scheduled for Next Day/Week:

• Continue GW samp. W. of Site I

• Continue slug test piezometer installation & logging

SUBMITTED TO WESTON 07 DEC 99 @ 1740

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

DE Havensink / DE Havensink / 07 DEC 99
Name/Signature/Date of Preparer

SAFETY MEETING FORM

(Piezometer installation for slug tests)

DATE 07 DEC 99

CONDUCTED BY / COMPANY: DE Harwood / O'Brien + Gere

PROJECT NAME Solutia - Sauget Areal

PROJECT LOCATION S. of Site H

WEATHER partly cloudy

PRECIPITATION none

TEMPERATURE ~30°F

NUMBER OF HOURS WORKED —

NUMBER OF EMPLOYEES —

1. SCHEDULED WORK:
2. REFERENCES TO APPROPRIATE SECTION OF FSP & HASP:
3. HEALTH AND SAFETY ISSUES WITH SCHEDULED WORK:
4. SPECIFIC HEALTH AND SAFETY ISSUES REQUIRING ATTENTION:
5. COMMENTS:

- ① Piezometer installation for slug testing.
- ② FSP # 5.14 HASP # 2.6 (generally applicable)
- ③ Drill rig hazards of overhead falling objects, moving parts, pressurized lines, noise, CO roll-over; potential contact with impacted soil & water, impacted impacts from the boring, slips/trips/falls, muscle strain
- ④ PPE is modified level D w/ air monitoring in breathing zone using PID, RAM, 4-gas; respirator on hand if upgrade to level C is necessary; distiller to inspect rig on daily basis and repair as needed
- ⑤ Drive w/ caution around the field office; segregate wastes; smoking in vehicles only

ATTENDANCE:

EMPLOYEE NAME (print)

EMPLOYEE SIGNATURE

COMPANY

TONY FINCH

[Signature]

O&G

Jim Crank

[Signature]

HARRIS

Phaed Dutton

[Signature]

HARRIS

[Signature]

[Signature]

O&G

Jimmy Jones

[Signature]

CANOKIA P.D.

Robert Remy

[Signature]

Solutia

William E. Wright

[Signature]

O&G

Ken LaForte

[Signature]

MAIERCE

SUBMITTED TO LABSTON 07DEC99 @ 1740

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

DE Harwood / DE Harwood

PRINTED NAME / SIGNATURE OF PREPARER

07 DEC 99

DATE

SAFETY MEETING FORM

(Down gradient alluvial/aquifer sampling)

DATE 07 DEC 99

CONDUCTED BY / COMPANY: DE Harvordink / O'Brien & Gere

PROJECT NAME Solutia - Saugat Area 1 PROJECT LOCATION W. of Site I

WEATHER partly cloudy PRECIPITATION none TEMPERATURE -30°F

NUMBER OF HOURS WORKED — NUMBER OF EMPLOYEES —

1. SCHEDULED WORK:
2. REFERENCES TO APPROPRIATE SECTION OF FSP & HASP:
3. HEALTH AND SAFETY ISSUES WITH SCHEDULED WORK:
4. SPECIFIC HEALTH AND SAFETY ISSUES REQUIRING ATTENTION:
5. COMMENTS:

- ① Down gradient alluvial/aquifer sampling
- ② FSP # 5.9 ; HASP # 2.6 (generally applicable - not installing wells)
- ③ Potential contact with VOCs, combustible gases, splashing of water, electric shock, muscle strain, slips/trips/falls, noise
- ④ PPE is modified level D with air monitoring in breathing zone using PID + CGM; respirator on hand if upgrade to level C is necessary
- ⑤ Segregate wastes and document appropriately on waste tracking log; smoking in support vehicles only; drive with caution around field office + at Coto Coffer

ATTENDANCE:

EMPLOYEE NAME (print)	EMPLOYEE SIGNATURE	COMPANY
DAREN THOMPSON	<i>[Signature]</i>	O&G
Don G. Pitt	<i>[Signature]</i>	FPS
Tim Tevescu	<i>[Signature]</i>	O&G
Ron McBrayer	<i>[Signature]</i>	FPS
COLIN WELCHENAMP	<i>[Signature]</i>	O&G
Kimberly Perry	<i>[Signature]</i>	Solutia
William E. Wright	<i>[Signature]</i>	O&G
Ken Lafferty	<i>[Signature]</i>	MAUECICK

SUBMITTED TO LESTON 07 DEC 99 @ 1740

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

DE Harvordink / D E Harvordink
PRINTED NAME / SIGNATURE OF PREPARER

07 DEC 99
DATE

Dec 7

AA-I-52 36.40 + 46.50

AA-I-53 54.58 + 64.68

Continue Well installation at site H

Had progress meeting with McAtter - Gager
and talked about the Slug Test issues
they agree the placement outside the
fill areas is an issue

McAtter will ask Solterra what reason
is

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION - MILITARY (ER 415-1-302)	THE OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	065
PROJECT Solutia Sauget Area 1 Sauget, IL	DATE	08 December, 99
	CONTRACT NO.	
CONTRACTOR O'Brien Gere	WEATHER	Cloudy, Temp. 55°F
CQC Inspection phases attended and instruction given: 1) Slug Testing: Continue well cluster for site H 2) Downgradient Alluvial Aquifer Sampling: AA-I-S2(56-60), (66-70) and AA-I-S3(74-78)		
Results of QA inspections and tests, deficiencies observed, actions taken and corrective action of contractor. Include comment pertaining to contractors CQC activities. 1) Alluvial Aquifer sampling is taking a lot of time. The turbidity is not going below 5 NTU's as required in the FSP so purging continues for two hours at each interval before samples can be taken.		
Verbal instruction given to contractor: (Include names, reactions and remarks) 1) I asked Kimberly Perry(Solutia) to produce a drawing indicating the locations she had marked for the Slug Tests. She promptly marked up Figure 1 of the FSP to show the placement of the well sites in relation to the fill areas. (see attached Fig.1)		
Has anything developed on the work, which might lead to a change order or finding of fact? NO <u>YES</u> 1) Piezometers for the Slug Tests are being installed outside the fill areas, the FSP section 5.14 indicates they will be installed at the fill areas. This issue has been brought to the attention of Tim Gouger(USACE) and Michael McAteer(USEPA). The Question was also noted during the Preparatory Inspection Meeting on 12-6-99 by Erik Kemper(Weston).		
Information on progress of work, causes for delays and extent of delays, weather, plant, material, etc. 1) Extending beyond the site boundaries for soil gas survey poses access issues with several sites --I (village of Sauget), H (Village of Sauget, Rogers Cartage), G (Queeny Rd. & Cerro Copper). OBG will get what they can and Solutia will work on getting access from the appropriate parties. 2) Rogers Cartage has denied access to Solutia for any future work.		

Information, instructions or actions taken not covered on QCR report or disagreement:

1) None

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions From Government personnel. Specify corrective action taken.)

1) None

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.)

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

12-08-99

Issues at Sauget Area 1

December 7, 1999

Site G: The west boundary trench (1A) did not show that the fill area was contained inside the fenced area. The fill appears to continue westward onto the Wiese property. Solutia and OBG have stated that it would be too disruptive to have an excavator trench through the Wiese property to try and find the waste boundary. Secondly, according to the aerial photographs the waste looks to extend under the building on the Wiese property.

An alternate plan for locating the western boundary is being developed by Solutia. The use of a Geo-Probe unit has been mentioned and to drive the rods and feel for resistance, but I do not know how they can determine that there is fill or not without at least taking a core sample to visually inspect the material.

Also the southern trench (#3) was initially moved because of the lower somewhat wetter areas. By doing this there is a large area of the site that will be left unknown if not investigated. Soil gas survey operations did take place in this same area so the terrain should be negotiable by a piece of equipment.

Slug Tests: According to the FSP the piezometers to be installed for the slug tests will be at each "Fill Area". The locations picked by Solutia and OBG are definitely outside the boundaries of the known fill areas, in some cases not on the same property such as Site I which is located across the street near background well EE-20 and the location for the Site H slug test is further south near background well EGG-108.

PARKING

WESE
(HARLOD WESE)

QUEENY AVENUE

SITE G BOUNDARY TAKEN FROM
HISTORICAL AERIAL PHOTOS
(1937 TO 1998)

BRUSH

BRUSH

BRUSH

BRUSH

N 700000 N 700000

N 695750 N 695750

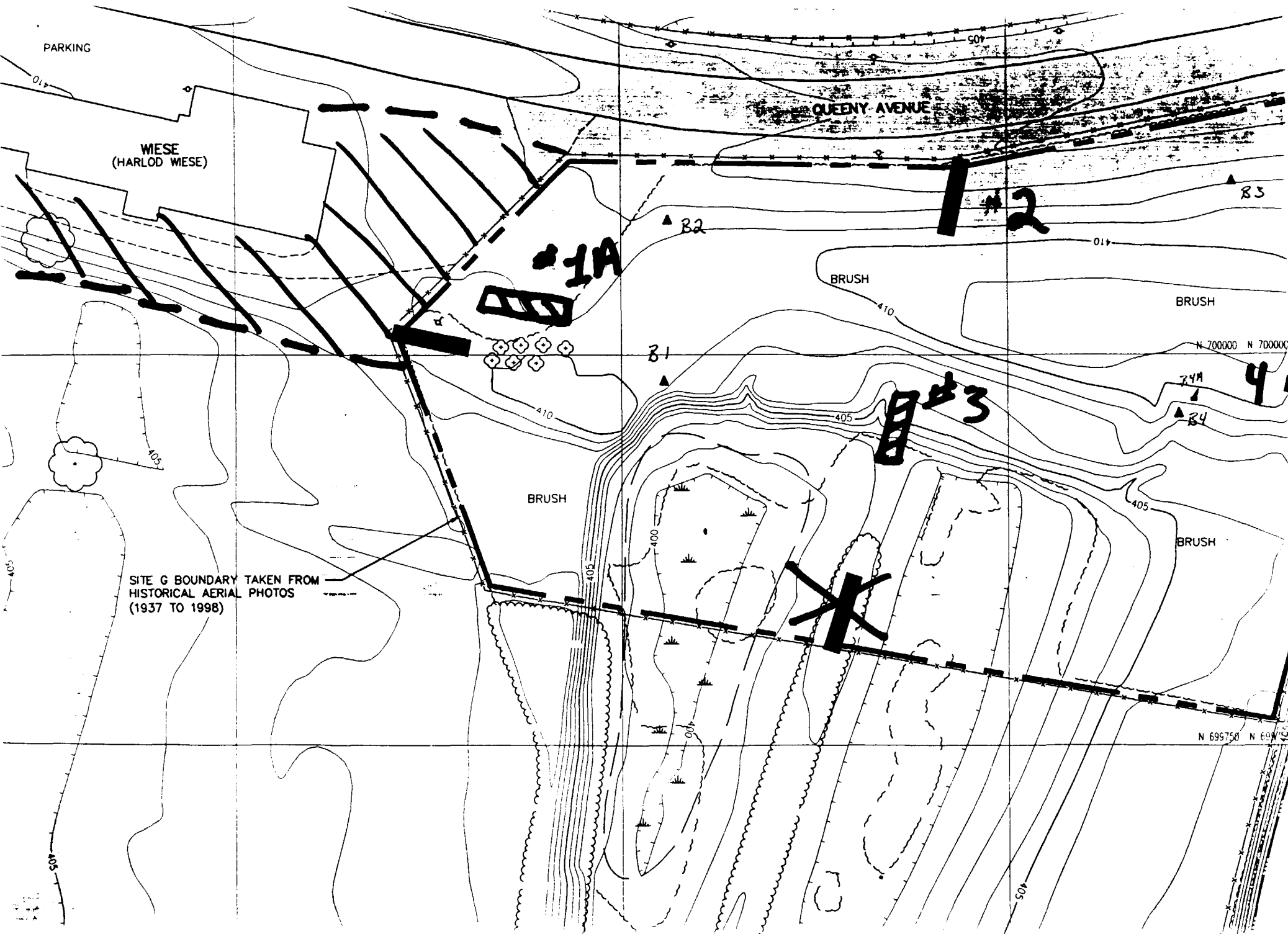
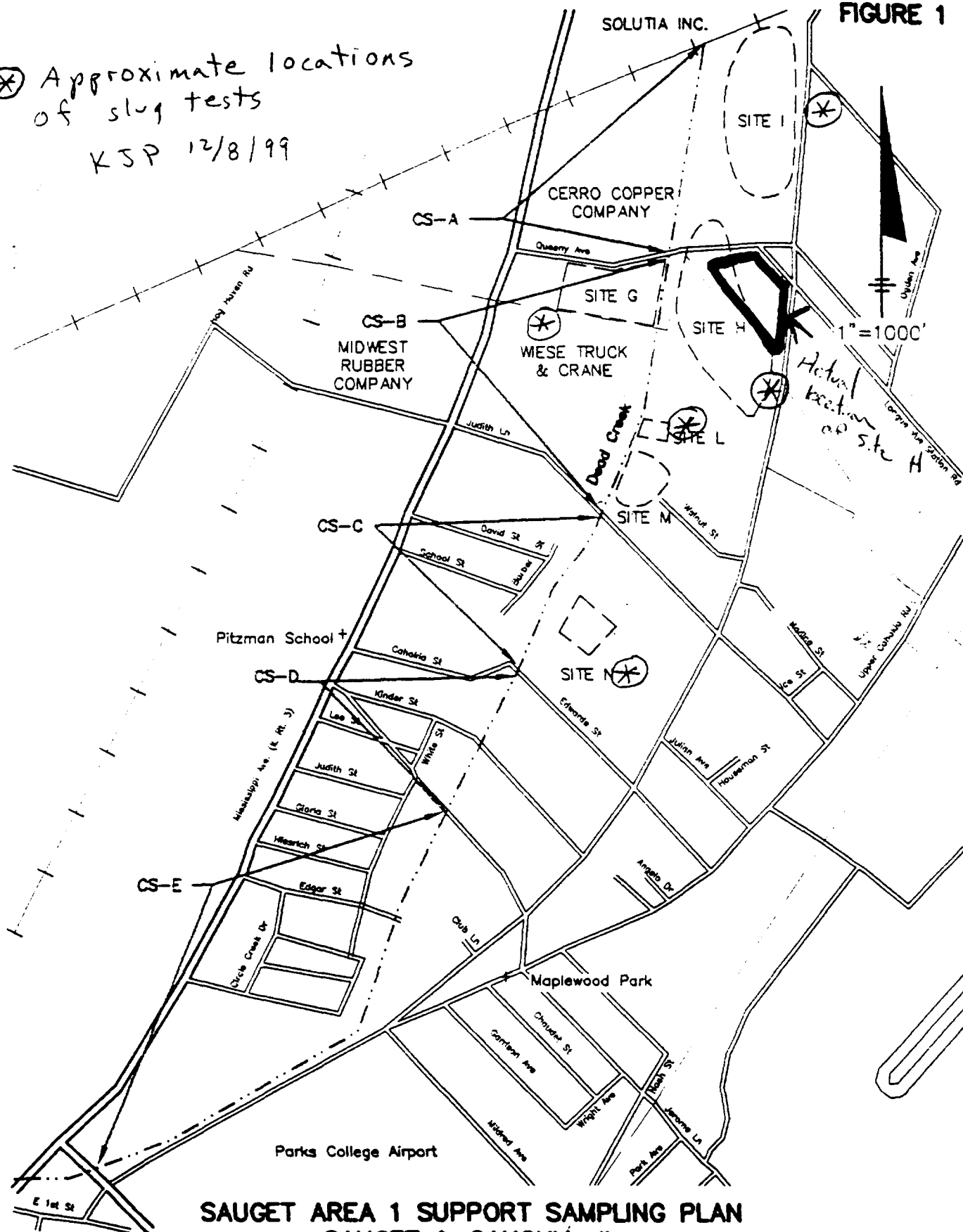


FIGURE 1

(*) Approximate locations
of slug tests
KSP 12/8/99



**SAUGET AREA 1 SUPPORT SAMPLING PLAN
SAUGET & CAHOKIA, IL
FILL AREA & CREEK SECTOR LOCATION MAP**

23548.010.05
3/29/99

DAILY WORK LOG

DATE 08 DEC 99

PROJECT NAME Solutra - Sanger Area PROJECT LOCATION W. of I, S. of H
 WEATHER Partly cloudy PRECIPITATION None TEMPERATURE ~55°F
 NUMBER OF HOURS WORKED 68 NUMBER OF EMPLOYEES 7

1. ITEMS WORKED ON (ITEM NO., DESCRIPTION, STA. TO STA., FOREMAN)
2. INSTRUCTIONS RECEIVED FROM SOLUTIA
3. INSTRUCTIONS RECEIVED FROM USEPA
4. DEVIATIONS
5. VISITORS (NAMES & TITLES)
6. EQUIPMENT
7. LUNCH MEETING COMMENTS
8. UNUSUAL EVENTS (FIRE, FLOOD, STORM, LABOR DISPUTES, ETC.)
9. REMARKS:

- ① Downgradient all. eq. samp.: collected GW samples AA-I-52- (56-60 FT), (66-70 FT); collected GW sample AA-I-53- (74-78 FT)
 Completed first boring at slug testing piezometer location S. of H (logged to 80 fbg); attempted piezometer installation to ~40 fbg in this location (see Remarks section)
 Performed sed. depth experimental measurements in creek-in prep. for sed. sampling
- ② None
- ③ None
- ④ None
- ⑤ See attached visitors log
- ⑥ 2 geoprobe rigs, 1 drilling, support vehicles, H+S equip., sampling equip, monitoring equip.
- ⑦ None
- ⑧ None
- ⑨ Piezometer was partially installed on top of the collapsed formation below it, when it dropped below the surface into the hole ~18'; the collapsed formation had previously been checked for soundness, but is expected to have bridged/heaved over a void below it, into which the piez. dropped; the piez. was retrieved, but the hole will not be used for piez. installation

SUBMITTED TO WESTON 08DEC99 @ 1820

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

DE Havardink / DE Blomden / 08 DEC 99
PRINTED NAME / SIGNATURE OF PREPARER / DATE

SAFETY MEETING FORM

DATE 08 DEC 99

CONDUCTED BY / COMPANY: DE Harwood / O'Brien + Gere

PROJECT NAME Solutia - Sargent Area PROJECT LOCATION Dead Creek

WEATHER Clear PRECIPITATION None TEMPERATURE ~35°F

NUMBER OF HOURS WORKED - NUMBER OF EMPLOYEES -

1. SCHEDULED WORK:
2. REFERENCES TO APPROPRIATE SECTION OF FSP & HASP:
3. HEALTH AND SAFETY ISSUES WITH SCHEDULED WORK:
4. SPECIFIC HEALTH AND SAFETY ISSUES REQUIRING ATTENTION:
5. COMMENTS:

- ① Sediment depth method experimentation in selected creek segments
- ② FSP # 5.20 HASP # 2.9
- ③ Potential contact w/ impacted sediment + water, slips/trips/falls, muscle strain
- ④ PPE is modified level D initial w/ potential use of waders - depends on creek conditions
- ⑤ Drive w/ caution around field office + creek; smoking in vehicles only

ATTENDANCE

EMPLOYEE NAME (print)	EMPLOYEE SIGNATURE	COMPANY
NICK JENKINS	<i>[Signature]</i>	OSG
William E. Wright	<i>[Signature]</i>	OSG
Robert J. Hest	<i>[Signature]</i>	Solutia

Submitted to supervisor 12/8/99 1800

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

DE Harwood / O'Brien + Gere
PRINTED NAME / SIGNATURE OF PREPARER

08 DEC 99

DATE

SAFETY MEETING FORM

(Piezometer installation for slug tests)

DATE 08 DEC 99

CONDUCTED BY / COMPANY: DE/Hurdink / O'Brien & Gore

PROJECT NAME Solutia - Sauget Areal PROJECT LOCATION S.O.H

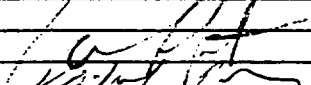
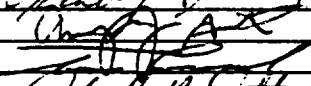
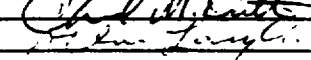
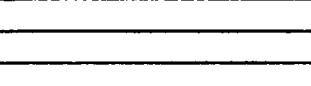
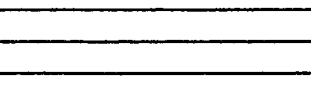
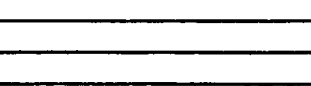
WEATHER Clear PRECIPITATION None TEMPERATURE -35°F

NUMBER OF HOURS WORKED — NUMBER OF EMPLOYEES —

1. SCHEDULED WORK:
2. REFERENCES TO APPROPRIATE SECTION OF FSP & HASP:
3. HEALTH AND SAFETY ISSUES WITH SCHEDULED WORK:
4. SPECIFIC HEALTH AND SAFETY ISSUES REQUIRING ATTENTION:
5. COMMENTS:

- ① Piezometer installation for slug testing.
- ② FSP # 5.14 HASP # 2.6 (generally applicable)
- ③ Drill rig hazards of overhead falling objects, moving parts, pressurized lines, noise, CO roll-over; potential contact with impacted soil & water, impacted vapors from the boring, slips/trips/falls, muscle strain
- ④ PPE is modified level D w/air monitoring in breathing zone using PID, RAM, 4-gas; respirator on hand if upgrade to level C is necessary; drill rig to inspect rig on daily basis and repair as needed
- ⑤ Drive w/ caution around the field office; segregate wastes; smoking in vehicles only

ATTENDANCE

EMPLOYEE NAME (print)	EMPLOYEE SIGNATURE	COMPANY
Tom Laffer		MALVERN
Kimberly Perry		Solutia
Tony Ernest		OBG
Tom Crank		Hallcross
Chad Sautter		Hallcross
Gregory H. Flinn		Hallcross

Submitted to Hurdink 12/8/99 1800

IF ADDITIONAL SPACE IS REQUIRED.
RECORD ON REVERSE SIDE

DE/Hurdink / DE/Hurdink
PRINTED NAME / SIGNATURE OF PREPARER

08 DEC 99

DATE

SAFETY MEETING FORM

(Downgradient alluvial aquifer sampling)

CONDUCTED BY / COMPANY: DE Hardink / O'Brien + Gore DATE 08 DEC 99
 PROJECT NAME Solutra - Sanget Area 1 PROJECT LOCATION W. of I
 WEATHER Clear PRECIPITATION None TEMPERATURE ~35°F
 NUMBER OF HOURS WORKED — NUMBER OF EMPLOYEES —

- 1 SCHEDULED WORK:
- 2 REFERENCES TO APPROPRIATE SECTION OF FSP & HASP:
- 3 HEALTH AND SAFETY ISSUES WITH SCHEDULED WORK:
- 4 SPECIFIC HEALTH AND SAFETY ISSUES REQUIRING ATTENTION:
- 5 COMMENTS:

- ① Downgradient alluvial aquifer sampling
- ② FSP # 5.9 ; HASP # 2.6 (generally applicable - not installing wells)
- ③ Potential contact with VOCs, combustible gases, splashing of water, electric shock, muscle strain, slips/trips/falls, noise
- ④ PPE is modified level D with air monitoring in breathing zone using PID + CGM; Respirator on hand if upgrade to level C is necessary
- ⑤ Segregate wastes and document appropriately on waste tracking log; Smoking in support vehicles only; drive with caution around field office + Carro Capra

ATTENDANCE:

EMPLOYEE NAME (print)	EMPLOYEE SIGNATURE	COMPANY
John Laporte	[Signature]	MVETICK
William E. Wright	[Signature]	USA
Nick Jenkins	[Signature]	CSG
Kimberly [unclear]	[Signature]	Solutra
DAREN THOMPSON	[Signature]	OSG
Carol WILKINSON	[Signature]	OSG
Ken [unclear]	[Signature]	IPS
Dan [unclear]	[Signature]	IPS

Submitted to [unclear], 12/8/99, 1801

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

DE Hardink / DE Hardink
PRINTED NAME / SIGNATURE OF PREPARER

08 DEC 99
DATE

WORK FORECAST

Work Forecast for the day/week: 09 DEC 99

Date: 08 DEC 99

Project Name: Solutra - Sanget Area

Project Location: W. of I., S. of H

Company Name: O'Brien + Gere

1. List Work Items and Locations Scheduled for Next Day/Week:

· Continue piezometer inst. for slug tests S. of H

· Continue Gb/ samp. W. of I

· Continue coordination for creek sediment sampling

Submitted to lifeplan, 12/8/99 1872

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

DE Havedink / DE Havedink / 08 DEC 99
Name/Signature/Date of Preparer

Solutia Inc.
Sauget Area 1
(Please Print)

Slugs tests
5.0 f#4

[illegible]

Solutia Inc.
Sauget Area 1
(Please Print)

[illegible]

Dec 8

Dugout Spite for AA.I-50 off
at ATAS

Worked with Tim George & Gerald Mungro
about simplifying the QARs a little
bit and to get them to them in
a more friendly manner. I do not
see a problem with doing so. Right
now I have several months of work
completed being reviewed. It will
make it easier.


INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION - MILITARY (ER 415-1-302)	THE OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	066
PROJECT Solutia Sauget Area 1 Sauget, IL	DATE	09 December, 99
	CONTRACT NO.	
CONTRACTOR O'Brien Gere	WEATHER	Rainy, Temp. 50°F
CQC Inspection phases attended and instruction given: 1) Slug Testing: Completed installation of well ST-H-D with screen from 75 to 80 feet, set up on ST-H-M then stopped work due to rain. 2) Downgradient Alluvial Aquifer Sampling: AA-I-S3(84-88)		
Results of QA inspections and tests, deficiencies observed, actions taken and corrective action of contractor. Include comment pertaining to contractors CQC activities. 1) Alluvial Aquifer sampling is taking a lot of time. The turbidity is not going below 5 NTU's as required in the FSP so purging continues for two hours at each interval before samples can be taken. 2) OBG produced a clarification to the FSP regarding the well construction for the slug tests.		
Verbal instruction given to contractor: (Include names, reactions and remarks) 1) None		
Has anything developed on the work, which might lead to a change order or finding of fact? NO <u>YES</u> 1) Piezometers for the Slug Tests are being installed outside the fill areas, the FSP section 5.14 indicates they will be installed at the fill areas. This issue has been brought to the attention of Tim Gouger(USACE) and Michael McAteer(USEPA). Erik Kemper (Weston) also noted the Question during the Preparatory Inspection Meeting on 12-6-99.		
Information on progress of work, causes for delays and extent of delays, weather, plant, material, etc. 1) Extending beyond the site boundaries for soil gas survey poses access issues with several sites --I (village of Sauget), H (Village of Sauget, Rogers Cartage), G (Queeny Rd. & Cerro Copper). OBG will get what they can and Solutia will work on getting access from the appropriate parties. 2) Rogers Cartage has denied access to Solutia for any future work.		
Information, instructions or actions taken not covered on QCR report or disagreement:		

1) None

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions From Government personnel. Specify corrective action taken.)

1) None

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.)

INSPECTORS'S SIGNITURE	DATE	SUPERVISOR'S INITIALS	DATE
	12-08-99		

CLARIFICATION LOG

INDIVIDUAL REQUESTING CLARIFICATION / COMPANY:

Solutia

DATE 9 Dec 99

HEALTH & SAFETY APPROVAL REQUIRED: YES: _____ NO: X

PROJECT NAME

Solutia-Seyt Area 1

PROJECT LOCATION

Seyt Sites G, H, I, L & N

WEATHER

Cool

PRECIPITATION

None

TEMPERATURE

45°F

NUMBER OF HOURS WORKED

N/A

NUMBER OF EMPLOYEES

N/A

1. CONTRACT ITEM BEING WORKED ON:

2. ITEM BEING CLARIFIED (REF. APPROP. SEC. OF FSP/HASP):

3. REASON FOR CLARIFICATION:

4. CLARIFICATION TO BE IMPLEMENTED:

5. EQUIPMENT:

6. DEVELOPMENTS WHICH MIGHT LEAD TO ISSUANCES OF A CHANGE ORDER OR BE THE BASIS OF A CLAIM (EQUIPMENT TIME: MANPOWER ETC.):

7. REMARKS:

① Slug Tests

② Sect. 5.3.3 of the FSP - details on page 50 that "The sampling point wells will generally be installed according to the typical well construction diagram in App. D..." This statement leads to a conflict between text on page 50 & App. D

③ Clarification is necessary to advise inform Project Team of piezometer construction. Conflict between page 50 text & App. D diagram.

④ The following text on page 50 will be followed more closely than App. D. App. D is appropriate in general terms. The following details specific piezometer construction methods:
 - Filter pack consists of 20-40 silica sand filter pack
 - Grout ~~will~~ will be bentonite placed on top ~~and~~ filter pack to just below surface
 - Minimum of 2 ft. filter pack installed above well screen

⑤ Drill Rig, Well Construction materials

⑥ None

⑦ None

Submitted to Weston on 9 Dec 99 @ 8:30

Tim Tedesco / LTH P. H.
 PRINTED NAME / SIGNATURE OF PREPARER

DATE

9 Dec 99

PRINTED NAME / SIGNATURE OF SOLUTIA REP / DATE

PRINTED NAME / SIGNATURE OF USEPA REP / DATE

IF ADDITIONAL SPACE IS REQUIRED,

DAILY WORK LOG

DATE 09 DEC 99

PROJECT NAME Solutia - Sauget Areal

PROJECT LOCATION W. of I, S. of H

WEATHER Cloudy & rainy

PRECIPITATION 10 am - end of day

TEMPERATURE ~50°F

NUMBER OF HOURS WORKED 6.2

NUMBER OF EMPLOYEES 7

1. ITEMS WORKED ON (ITEM NO., DESCRIPTION, STA. TO STA., FOREMAN)
2. INSTRUCTIONS RECEIVED FROM SOLUTIA
3. INSTRUCTIONS RECEIVED FROM USEPA
4. DEVIATIONS
5. VISITORS (NAMES & TITLES)
6. EQUIPMENT
7. LUNCH MEETING COMMENTS:
8. UNUSUAL EVENTS (FIRE, FLOOD, STORM, LABOR DISPUTES, ETC.)
9. REMARKS:

- ① • Slug test piezometers: set piezometers ST-H-D w/ screen at 75-80 ft & set up on ST-H-M and stopped work for the day due to rain
 • Collected AA-E-S3 - (84-88 FT), (84-88 FT - FD), (84-88 FT - MS), (84-88 FT - MSD)
 • Prepared sample containers for future sampling
 • Coordinated future activities

② None

③ None

④ None

⑤ None

⑥ 2 Geoprobe rigs, 1 drilling, support vehicles, H+S equip., sampling equip., monitoring equip.

⑦ None

⑧ None

⑨ Gbl samples collected out of the rain to prevent impact from rain water; probe holes covered to minimize ~~the~~ impact from surface water

SUBMITTED TO WESTON 09 DEC 99 @ 1800

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

DE Harvardink / DE Beaudoin / 09 DEC 99
PRINTED NAME / SIGNATURE OF PREPARER / DATE

WORK FORECAST

Work Forecast for the day/week: 13 DEC 99

Date: 09 DEC 99

Project Name: Solutia-Sanget Area

Project Location: Fillareas, W. of I, W. of GHL, Dead Creek

Company Name: O'Brien & Gere

1. List Work Items and Locations Scheduled for Next Day/Week:

- Continue downgradient alluv. ag. samp. W. of I and W. of GHL
- Continue installation of slug test piezometers
- Collect grain size analysis ^{sample} at Site N
- Begin creek sediment sampling field activities

SUBMITTED TO WESTON 09 DEC 99 @ 1800

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

DE Harvordine / DE Harvordine / 09 DEC 99
Name/Signature/Date of Preparer

SAFETY MEETING FORM

(Downgradient alluvial aquifer sampling)

DATE 09 DEC 99

CONDUCTED BY / COMPANY DE Haversdink / O'Brien + Gere

PROJECT NAME Spilvia - Sauger Area 1

PROJECT LOCATION W. of Site 1

WEATHER partly cloudy

PRECIPITATION none

TEMPERATURE ~35°F

NUMBER OF HOURS WORKED —

NUMBER OF EMPLOYEES —

- 1 SCHEDULED WORK:
- 2 REFERENCES TO APPROPRIATE SECTION OF FSP & HASP:
- 3 HEALTH AND SAFETY ISSUES WITH SCHEDULED WORK:
- 4 SPECIFIC HEALTH AND SAFETY ISSUES REQUIRING ATTENTION:
- 5 COMMENTS:

- ① Downgradient alluvial aquifer sampling
- ② FSP # 5.9 ; HASP # 2.6 (generally applicable - not installing wells)
- ③ Potential contact with VOCs, combustible gases, splashing of water, electric shock, muscle strain, slips/trips/falls, noise
- ④ PPE is modified level D with air monitoring in breathing zone using PID + CGM; respirator on hand if upgrade to level C is necessary
- ⑤ Segregate wastes and document appropriately on waste tracking log; smoking in support vehicles only; drive with caution around field office + GORE camp; keep rain + surface water out of hole + out of samples

ATTENDANCE:

EMPLOYEE NAME (print)	EMPLOYEE SIGNATURE	COMPANY
Tim Tedesco	L.P. W.	CBC
Don M. Brayer	[Signature]	TFS
Don Lafferty	[Signature]	MILITARY
Kimberly A. [unclear]	[Signature]	SALUDA
William E. Wright	[Signature]	CBC
Don [unclear]	[Signature]	TFS
BREN THOMPSON	[Signature]	CBC
COLE WELLS (S.A.M.)	[Signature]	TFS
Nick Jenkins	[Signature]	O'Brien + Gere

SUBMITTED TO WESTON 09 DEC 99 @ 1800

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

DE Haversdink / DE Haversdink

PRINTED NAME / SIGNATURE OF PREPARER

09 DEC 99

DATE

SAFETY MEETING FORM

(Piezometer installation for slug tests)

DATE 09 DEC 99

CONDUCTED BY / COMPANY: DE Haverdink / O'Brien + Gere

PROJECT NAME Solutia - Saugeat Areal PROJECT LOCATION S. of Site H

WEATHER partly cloudy PRECIPITATION none TEMPERATURE ~35°F

NUMBER OF HOURS WORKED — NUMBER OF EMPLOYEES —

1. SCHEDULED WORK:
2. REFERENCES TO APPROPRIATE SECTION OF FSP & HASP:
3. HEALTH AND SAFETY ISSUES WITH SCHEDULED WORK:
4. SPECIFIC HEALTH AND SAFETY ISSUES REQUIRING ATTENTION:
5. COMMENTS:

- ① Piezometer installation for slug testing.
- ② FSP # 5.14 HASP # 2.6 (generally applicable)
- ③ Drill rig hazards of overhead falling objects, moving parts, pressurized lines, noise, CO roll-over; potential contact with impacted soil & water, impacted vapors from the boring, slips/trips/falls, muscle strain, ~~noise~~
- ④ PPE is modified level D w/ air monitoring in breathing zone using PID, RAM, 4-gas; respirator on hand if upgrade to level C is necessary; drillar to inspect rig on daily basis and repair as needed
- ⑤ Drive w/ caution around the field office; segregate wastes; smoking in vehicles only

ATTENDANCE:

EMPLOYEE NAME (print)	EMPLOYEE SIGNATURE	COMPANY
<u>CHAD DUTTON</u>	<u>[Signature]</u>	<u>MAIERICK</u>
<u>Tim Clark</u>	<u>[Signature]</u>	<u>Hamm. SS</u>
<u>Tony Finch</u>	<u>[Signature]</u>	<u>Hamm. SS</u>
<u>Kimberly Perry</u>	<u>[Signature]</u>	<u>OSG</u>
		<u>Solutia</u>

SUBMITTED TO WESTON 09 DEC 99 @ 1800

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

DE Haverdink / O'Brien + Gere
PRINTED NAME / SIGNATURE OF PREPARER

09 DEC 99
DATE

Solutia Inc.
Sauget Area 1
(Please Print)

[illegible]

WORK FORECAST

Work Forecast for the day/week: 10 DEC 99

Date: 09 DEC 99

Project Name: Solutra - Sanget Area

Project Location: W. of I, S. of H

Company Name: O'Brien + Gere

1. List Work Items and Locations Scheduled for Next Day/Week:

- Continue GW samp. W. of Site I

- Continue slug test piez. installation

- Continue coord. of creek sed. samp.

SUBMITTED TO WESTON 09 DEC 99 @ 1800

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

DE Harding / DE Harding / 09 DEC 99
Name/Signature/Date of Preparer

Dec 9

Received letter concerning issues
about the slug test areas picked
also about S.F. G boundary delineation
sent it to McAlister - Gough?

Contacted Steve Brodman to let
him know the schedule of the ECC
samples selection in Savannah Labs
by Renee Gura

Asked Kimberly to let me know when
a date has been confirmed

OBG continue

Michael Aguilor Samples @ H.H.T-S2, S3
Installation of slug test well to site #

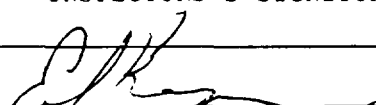
INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION - MILITARY (ER 415-1-302)	THE OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	067
PROJECT Solutia Sauget Area 1 Sauget, IL	DATE	10 December, 99
	CONTRACT NO.	
CONTRACTOR O'Brien Gere	WEATHER	Sunny, Temp. 45°F
<p>CQC Inspection phases attended and instruction given:</p> <ol style="list-style-type: none"> 1) Slug Testing: Completed installation of well ST-H-S with screen from 6 to 11 feet, also set ST-H-M with screen at 38 to 43 feet. 2) Downgradient Alluvial Aquifer Sampling: Collected samples from AA-I-S2(76-80) and AA-I-S3(94-98) 		
<p>Results of QA inspections and tests, deficiencies observed, actions taken and corrective action of contractor. Include comment pertaining to contractors CQC activities.</p> <ol style="list-style-type: none"> 1) Alluvial Aquifer sampling is taking a lot of time. The turbidity is not going below 5 NTU's as required in the FSP so purging continues for two hours at each interval before samples can be taken. 2) Received a plan from Solutia to define the western boundary of Site G (See Attached) 		
<p>Verbal instruction given to contractor: (Include names, reactions and remarks)</p> <ol style="list-style-type: none"> 1) None 		
<p>Has anything developed on the work, which might lead to a change order or finding of fact? NO <u>YES</u></p> <ol style="list-style-type: none"> 1) Piezometers for the Slug Tests are being installed outside the fill areas, the FSP section 5.14 indicates they will be installed at the fill areas. This issue has been brought to the attention of Tim Gouger(USACE) and Michael McAteer(USEPA). Erik Kemper (Weston) also noted the Question during the Preparatory Inspection Meeting on 12-6-99. 		
<p>Information on progress of work, causes for delays and extent of delays, weather, plant, material, etc.</p> <ol style="list-style-type: none"> 1) Extending beyond the site boundaries for soil gas survey poses access issues with several sites --I (village of Sauget), H (Village of Sauget, Rogers Cartage), G (Queeny Rd. & Cerro Copper). OBG will get what they can and Solutia will work on getting access from the appropriate parties. 2) Rogers Cartage has denied access to Solutia for any future work. 		
<p>Information, instructions or actions taken not covered on QCR report or disagreement:</p>		

1) None

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions From Government personnel. Specify corrective action taken.)

1) None

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.)

INSPECTORS'S SIGNITURE	DATE	SUPERVISOR'S INITIALS	DATE
	12-10-99		

Method to Further Identify the Approximate Western Boundary of Site G

Sect. 5.1 of the FSP (As Applicable)

9 Dec 99

- Step 1 Review aerial photos and available data to estimate west boundaries
Mark estimated west boundary to the south of the Wiese building and
 between the trailers to the West
Mark the first three potential drill locations to the south of the Wiese building and
 between the trailers to the West:
- 1st – within 5 FT. of the southwest corner of the Wiese building
 - 2nd – half distance between the 1st marking and Route 3 to the west of the Wiese building
 - 3rd – half distance between the 1st marking and the western fence line of site G
- Clear the area for utilities
Wiese coordination and logistics
- Step 2 Mobilize rig capable of probing and/or drilling
Construct DCON pad*
Prepare Level C equipment
Drill/probe at the 1st marked location – Sect. 5.1 will be followed in general**
- waste presence/absence confirmed through drill cuttings or stainless steel probe sampler
 - waste presence will be documented in boring log and photographed (Sect. 5.1)
 - waste presence confirmed ***
 - mobilize to the next location to the west (2nd marked potential location stated above)
 - A) waste presence confirmed – mobilize to the next location to the West which will be half the distance between the present location and Route 3 to the west of the Wiese building (continue west mobilizing ≥ 10 FT. until Route 3)
 - waste absence confirmed – drill to top of water table (estimated at 15 FT.)
 - mobilize to the next location to the east (3rd marked potential location stated above)
 - B) waste absence confirmed – drill to top of water table (estimated at 15 FT.)
 - mobilize to the next location to the East which will be half the distance between the present location and western fence line of site G (continue east mobilizing ≥ 10 FT. until the western fence line of site G)
 - waste presence confirmed – GO TO “A” ABOVE
- Drill/probe until the distance between a waste absence and waste presence confirmation boring is ≤ 10 FT.

Step 3 Survey the appropriate drilled/probed locations

*DCON operations and Investigative Derived Waste management will proceed as specified in the FSP (Sect. 5.1 and 9 as applicable)

** Each boring will be documented as specified in the FSP (Sect. 5.1 as applicable)

***Each boring will be filled as specified in the FSP (Sect. 5.1 as applicable)

Submitted to Weston on 10 Dec 99 @ 1630

DAILY WORK LOG

DATE 10 DEC 99

PROJECT NAME Solutia - Sargent Area 1 PROJECT LOCATION W. of Sack I., S. of Sike I.
 WEATHER clear PRECIPITATION none TEMPERATURE ~45°F
 NUMBER OF HOURS WORKED 58 NUMBER OF EMPLOYEES 7

1. ITEMS WORKED ON (ITEM NO., DESCRIPTION, STA. TO STA., FOREMAN)
2. INSTRUCTIONS RECEIVED FROM SOLUTIA
3. INSTRUCTIONS RECEIVED FROM USEPA
4. DEVIATIONS
5. VISITORS (NAMES & TITLES)
6. EQUIPMENT
7. LUNCH MEETING COMMENTS:
8. UNUSUAL EVENTS (FIRE, FLOOD, STORM, LABOR DISPUTES, ETC.)
9. REMARKS:

① - Slug tests: installed ST-H-5 and ST-H-4 (screened 6-11 fbg) and ST-H-11 (screened 38-43 fbg)
 - Collected AA-I-52- (76-80 FT), (76-80 FT-FD), (76-80 FT-EB); collected AA-I-53- (84-88 FT-EB), (84-88 FT)

② None
 ③ None
 ④ None

⑤ None

⑥ 2 Geoprobe rigs, 1 drill rig, support vehicles, H+S equip, sampling vehicles, equip., monitoring equip.

SUBMITTED TO WESTON 10 DEC 99 @ 1700

IF ADDITIONAL SPACE IS REQUIRED,
 RECORD ON REVERSE SIDE

DE Handink / DE Handink / 10 DEC 99
 PRINTED NAME / SIGNATURE OF PREPARER / DATE

WORK FORECAST

Work Forecast for the Day/Week: 13 DEC 99

Date: 10 DEC 99

Project Name: Solutia - Sauget Area

Project Location: Site N, W. of Site I, S. of H

Company Name: O'Brien + Gere

1. List Work Items and Locations Scheduled for Next Day/Week:

- Perform borings at Site N for slug test piezometer installation
- Collect grain size analysis samples at Site N
- Continue downgradient alluvial aquifer sampling W. of Site I
- Move slug test drums from S. of H to Judith Ln.
(weather + conditions permitting)

SUBMITTED TO WESTON 10 DEC 99 @ 1700

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

Dave Haverdink / P.E. Haverdink / 10 DEC 99
Name/Signature/Date of Preparation

SAFETY MEETING FORM

(Piezometer installation for slug tests)

DATE 10 DEC 99

CONDUCTED BY / COMPANY: DE Haverdink / O'Brien & Gere

PROJECT NAME Solutia - Saugeat Areal PROJECT LOCATION S. of H

WEATHER clear PRECIPITATION rain overnight 09 DEC TEMPERATURE ~40°F

NUMBER OF HOURS WORKED — NUMBER OF EMPLOYEES —

1. SCHEDULED WORK:
2. REFERENCES TO APPROPRIATE SECTION OF FSP & HASP:
3. HEALTH AND SAFETY ISSUES WITH SCHEDULED WORK:
4. SPECIFIC HEALTH AND SAFETY ISSUES REQUIRING ATTENTION:
5. COMMENTS:

- ① Piezometer installation for slug testing.
- ② FSP # 5.14 HASP # 2.6 (generally applicable)
- ③ Drilling hazards of overhead falling objects, moving parts, pressurized lines, noise, CO roll-over; potential contact with impacted soil & water, impacted vapors from the boring, slips/trips/falls, muscle strain
- ④ PPE is modified level D w/ air monitoring in breathing zone using PID, RAM, 4-gas; respirator on hand if upgrade to level C is necessary; drill to inspect rig on daily basis and repair as needed
- ⑤ Drive w/ caution around the field office; segregate wastes; smoking in vehicles only

ATTENDANCE

EMPLOYEE NAME (print)	EMPLOYEE SIGNATURE	COMPANY
Tom C. Clark	[Signature]	HR 7153
Tony Smith	[Signature]	ONSC
Capital Section	[Signature]	Harvey
Paul [unclear]	[Signature]	MLP E.P.F.
Michael J. Perry	[Signature]	Solutia
Scott A. [unclear]	[Signature]	Calvin P.D.
Nick [unclear]	[Signature]	BS
William E. Wright	[Signature]	OSG

SUBMITTED TO WESTON 10 DEC 99 @ 1700

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

DE Haverdink / DE Haverdink
PRINTED NAME / SIGNATURE OF PREPARER

10 DEC 99
DATE

SAFETY MEETING FORM

(Downgradient alluvial aquifer sampling)

DATE 10 DEC 99

CONDUCTED BY / COMPANY: DE Harwood / O'Donoghue

PROJECT NAME: Solutia - Sanger Area 1

PROJECT LOCATION: W of I

WEATHER: Clear

PRECIPITATION: Rain overnight 09 DEC

TEMPERATURE: ~40°F

NUMBER OF HOURS WORKED: —

NUMBER OF EMPLOYEES: —

1. SCHEDULED WORK:
2. REFERENCES TO APPROPRIATE SECTION OF FSP & HASP:
3. HEALTH AND SAFETY ISSUES WITH SCHEDULED WORK:
4. SPECIFIC HEALTH AND SAFETY ISSUES REQUIRING ATTENTION:
5. COMMENTS:

- ① Downgradient alluvial aquifer sampling
- ② FSP # 5.9 ; HASP # 2.6 (generally applicable - not installing wells)
- ③ Potential contact with VOCs, combustible gases, splashing of water, electric shock, muscle strain, slips/trips/falls, noise
- ④ PPE is modified level D with air monitoring in breathing zone using PID + CGM; respirator on hand if upgrade to level C is necessary
- ⑤ Segregate wastes and document appropriately on waste tracking log; smoking in support vehicles only; drive with caution around field office + C or N areas

ATTENDANCE:

EMPLOYEE NAME (print)	EMPLOYEE SIGNATURE	COMPANY
K. A. LAFERTY	[Signature]	AMERICK
Don McBrayer	[Signature]	URS
Paul [unclear]	[Signature]	FIS
[unclear]	[Signature]	Solutia
Colin [unclear]	[Signature]	URS
Scott A. [unclear]	[Signature]	URS
William E. Wright	[Signature]	URS
Mike Jenkins	[Signature]	URS
Allen Thompson	[Signature]	URS

SUBMITTED TO WESTON 16 DEC 99 @ 1700

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

DE Harwood / DE Harwood

PRINTED NAME / SIGNATURE OF PREPARER

10 DEC 99

DATE

Solutia Inc.
Sauget Area 1
(Please Print)

Slug test per inst.
S. of H

[illegible]

**Solutia Inc.
Sauget Area 1
(Please Print)**

[illegible]

74

Dec 10

Completed well cluster for site H
today

AA-I-52 76.80

AA-I-53 94.98

Received a plan from Solutia to define
the western boundary of Site G.
Kinberly P said McAleer already
has a copy

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION - MILITARY (ER 415-1-302)	THE OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	068
PROJECT Solutia Sauget Area 1 Sauget, IL	DATE	13 December, 99
	CONTRACT NO.	
CONTRACTOR O'Brien Gere	WEATHER	Cloudy, Temp. 45°F

CQC Inspection phases attended and instruction given:

- 1) Downgradient Alluvial Aquifer Sampling: AA-I-S2(86-90), (96-100)
AA-I-S3(104-108)
- 2) Slug Test: Finish installation of piezometers at Site H and mobilize to Site N advanced deep boring to 24 feet.
- 3) Grain Size Analysis: Collect Grain Size samples at Site N while boring for the piezometers.

- 1) Alluvial Aquifer sampling is taking a lot of time. The turbidity is not going below 5 NTU's as required in the FSP so purging continues for two hours at each interval before samples can be taken.

Verbal instruction given to contractor: (Include names, reactions and remarks)

- 1) None

Has anything developed on the work, which might lead to a change order or finding of fact? NO YES

Information on progress of work, causes for delays and extent of delays, weather, plant, material, etc.

- 1) Extending beyond the site boundaries for soil gas survey poses access issues with several sites --I (village of Sauget), H (Village of Sauget), G (Queeny Rd. & Cerro Copper). OBG will get what they can and Solutia will work on getting access from the appropriate parties.
- 2) Rogers Cartage has declined any further access to their property

Information, instructions or actions taken not covered on QCR report or disagreement:

1) None

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions From Government personnel. Specify corrective action taken.)

1) None

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.)

INSPECTOR'S SIGNATURE

DATE

SUPERVISOR'S
INITIALS

DATE

12-13-99

Dec 13

Downgradient Aquifer Sampling

AA-I-S2 86.90 + 96.100

AA-I-S3 104.108

Begin well installation for slug
Tests near Site N

DAILY WORK LOG

DATE 13 DEC 99

PROJECT NAME Solutra - Sanger Area 1 PROJECT LOCATION S. of H, E. of N, W. of I
 WEATHER partly cloudy PRECIPITATION none TEMPERATURE ~45°F
 NUMBER OF HOURS WORKED 52 NUMBER OF EMPLOYEES 7

1. ITEMS WORKED ON (ITEM NO., DESCRIPTION, STA. TO STA., FOREMAN)
2. INSTRUCTIONS RECEIVED FROM SOLUTIA
3. INSTRUCTIONS RECEIVED FROM USEPA
4. DEVIATIONS
5. VISITORS (NAMES & TITLES)
6. EQUIPMENT
7. LUNCH MEETING COMMENTS:
8. UNUSUAL EVENTS (FIRE, FLOOD, STORM, LABOR DISPUTES, ETC.)
9. REMARKS:

- ① Mobilized drill rig from ST-H piezometer cluster to Site N, installed deep boring for sample logging to 24 fbg at Site N (E. of fill area).
 Collected AA-I-52- (86-90 FT), (96-100 FT); collected AA-I-53- (104-108 FT)
 Coordinated future activities
 Began collecting grain size analysis samples E. of Site N
- ② Slug test piezometer locations near Sites L & G were reviewed with respect to drill rig accessibility and proximity to the sites; piezometer clusters for these sites will be moved from the previous marked locations, per K. Perry
- ③ None
- ④ Grain size analysis samples at Site N collected using hollow stem auger / split spoon methodology v/s. direct push / Macro Core methodology - see deviation log
- ⑤ ~~None~~ See attached visitors log
- ⑥ 2 Geoprobe rigs, 1 drill rig, support vehicles, H₂S equip., monitoring equip., sampling equip.
- ⑦ None
- ⑧ None
- ⑨ None

SUBMITTED TO WESTON 13 DEC 99 @ 1830

IF ADDITIONAL SPACE IS REQUIRED,
 RECORD ON REVERSE SIDE

DE Howardine / DE Howardine / 13 DEC 99
 PRINTED NAME / SIGNATURE OF PREPARER / DATE

DEVIATION LOG

INDIVIDUAL REQUESTING DEVIATION / COMPANY: _____

DATE 13 DEC 99

DE Harwoodink / O'Brien + Gere

HEALTH & SAFETY APPROVAL REQUIRED: YES: _____ NO: X

PROJECT NAME Solutia - Saugat Area 1 PROJECT LOCATION E. of Site A

WEATHER NA PRECIPITATION NA TEMPERATURE NA

NUMBER OF HOURS WORKED NA NUMBER OF EMPLOYEES NA

1. CONTRACT ITEM BEING WORKED ON: _____
2. ITEM BEING DEVIATED (REF. APPROP. SEC. OF FSP/HASP): _____
3. REASON FOR DEVIATION: _____
4. DEVIATION OR FIELD CHANGE TO BE IMPLEMENTED: _____
5. EQUIPMENT: _____
6. DEVELOPMENTS WHICH MIGHT LEAD TO ISSUANCES OF A CHANGE ORDER OR BE THE BASIS OF A CLAIM (EQUIPMENT; TIME; MANPOWER; ETC.): _____
7. REMARKS: _____

- ① Grain size analysis sampling E. of Site A
- ② Collection method - FSP # 5.15
- ③ Collection of grain size analysis samples while borings are completed for slug test piezometer installations
- ④ Collect samples using hollow stem auger & split spoon vs. the specified direct push & Macrocore method
- ⑤ Drill rig, split spoon
- ⑥ None
- ⑦ None

SUBMITTED TO WESTON 13 DEC 99 @ 1830

DE Harwoodink / J. E. Harwoodink
PRINTED NAME / SIGNATURE OF PREPARER

PRINTED NAME / SIGNATURE OF SOLUTIA REP / DATE

13 DEC 99

DATE

IF ADDITIONAL SPACE IS REQUIRED,

PRINTED NAME / SIGNATURE OF USEPA REP / DATE

WORK FORECAST

Work Forecast for the day/week: 14 DEC 99

Date: 13 DEC 99

Project Name: Solutia - Sauget Area

Project Location: E of N, W of I, W of GHL

Company Name: ORG

1. List Work Items and Locations Scheduled for Next Day/Week:

- Continue logging boring for slug tests E. of N
- Continue collecting grain size analysis samples E. of N
- Continue Gwl sampling W. of I ; move to S3 W. of GHL (Hankins' property)
- Continue coordinating future activities

SUBMITTED TO WESTON 15 DEC 99 @ 1830

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

DE Haroldnik / DE Haroldnik 13 DEC 99
Name/Signature/Date of Preparer

SAFETY MEETING FORM

(Piezometer installation for slug tests)
+ Grain size analysis sampling

DATE 13 DEC 99

CONDUCTED BY / COMPANY: DE Haverdine / O'Brien + Gere

PROJECT NAME Solutia - Sargent Area

PROJECT LOCATION S.d.H. Site A

WEATHER cloudy w/ fog

PRECIPITATION none

TEMPERATURE ~35°F

NUMBER OF HOURS WORKED —

NUMBER OF EMPLOYEES —

1. SCHEDULED WORK:

2. REFERENCES TO APPROPRIATE SECTION OF FSP & HASP:

3. HEALTH AND SAFETY ISSUES WITH SCHEDULED WORK:

4. SPECIFIC HEALTH AND SAFETY ISSUES REQUIRING ATTENTION:

5. COMMENTS:

- (1) Piezometer installation for slug testing; grain size analysis sampling
- (2) FSP # 5.14, 5.15; HASP # 2.6 (generally applicable)
- (3) Drilling hazards of overhead falling objects, moving parts, pressurized lines, noise, CO, roll-over; potential contact with impacted soil + water, impacted vapors from the boring, slips / trips / falls, muscle strain
- (4) PPE is modified level D w/ air monitoring in breathing zone using PID, RAM, 4-gas; respirator on hand if upgrade to level C is necessary; driller to inspect rig on daily basis and repair as needed
- (5) Drive w/ caution around the field office; segregate wastes; smoking in vehicles only; minimize mud on the roads

ATTENDANCE

EMPLOYEE NAME (print)

EMPLOYEE SIGNATURE

COMPANY

Tim Crank	<i>[Signature]</i>	PARSONS
Tommy Brown	<i>[Signature]</i>	OGG
Charles Johnson	<i>[Signature]</i>	OGG
DAVE HEINE	<i>[Signature]</i>	OGG
KEVIN WHEFERTL	<i>[Signature]</i>	OGG
CELINE WELDONKAMP	<i>[Signature]</i>	OGG
Kimberly Perry	<i>[Signature]</i>	OGG
William E. Wright	<i>[Signature]</i>	OGG
Rich Jenkins	<i>[Signature]</i>	OGG

SUBMITTED TO WESTON 13 DEC 99 @ 1830

IF ADDITIONAL SPACE IS REQUIRED.
RECORD ON REVERSE SIDE

DE Haverdine / O'Brien + Gere
PRINTED NAME / SIGNATURE OF PREPARER

13 DEC 99

DATE

SAFETY MEETING FORM

(Downgradient alluvial aquifer sampling)

DATE 13 DEC 99

CONDUCTED BY / COMPANY: DE Haverdink / O'Brien + Gere

PROJECT NAME Solutia - Sanger Area 1

PROJECT LOCATION Wid Site I

WEATHER cloudy w/ fog

PRECIPITATION none

TEMPERATURE ~35°F

NUMBER OF HOURS WORKED —

NUMBER OF EMPLOYEES —

- 1 SCHEDULED WORK:
- 2 REFERENCES TO APPROPRIATE SECTION OF FSP & HASP:
- 3 HEALTH AND SAFETY ISSUES WITH SCHEDULED WORK:
- 4 SPECIFIC HEALTH AND SAFETY ISSUES REQUIRING ATTENTION:
- 5 COMMENTS:

- ① Downgradient alluvial aquifer sampling
- ② FSP # 5.9 ; HASP # 2.6 (generally applicable - not installing wells)
- ③ Potential contact with VOCs, combustible gases, splashing of water, electric shock, muscle strain, slips/trips/falls, noise
- ④ PPE is modified level D with air monitoring in breathing zone using PID + CGM; respirator on hand if upgrade to level C is necessary
- ⑤ Segregate wastes and document appropriately on waste tracking log; smoking in support vehicles only; drive with caution around field office + Cento Coffer

ATTENDANCE:

EMPLOYEE NAME (print)	EMPLOYEE SIGNATURE	COMPANY
Kimberly Perry	[Signature]	SLT
Colin Wellen	[Signature]	SLT
Ben Lafferty	[Signature]	SLT
David Thomas	[Signature]	SLT
William E. Wright	[Signature]	SLT
Nick Jenkins	[Signature]	SLT
Dan Coatt	[Signature]	SLT

SUBMITTED TO WESLON 13 DEC 99 @ 1830

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

DE Haverdink / DE Haverdink
PRINTED NAME / SIGNATURE OF PREPARER

13 DEC 99
DATE

E. of N 2nd site till 1630hrs

E. of N 2nd site till 1630hrs

E. of N 2nd site till 1630hrs

Solutia Inc.
Sauget Area 1
(Please Print)

Date	Name	Organization	Phone #	Time In	Time Out
10/10/98	Kimberly Perry	Solutra	314-674-3402	0637	1700
10/12/99	Dave Harrodink	OBG	314-284-6425	0655	1825
10/12/98	DAVE MEINE	Cahokia PD	(618) 337-4065	0700	1625
10/14/98	Mike Jenkins	Orion's Star	314 842 4550	0700	0900
10/13/99	COLIN WELLENBACH	OBG	842-4550	0703	1445
10/13/99	TONY FINCH	OBG		0708	1730
10/13/99	Ron McWhorter	IPS	618-244-7900	0710	1440
10/13/00	Ken Lacey	ANALIC		0710	1810
10/13/98	Bill Wright	OBG	314-284-6434	0714	0900
10/16/99	Dan Leary	IPS	618-244-7900	0730	1410
10/13/99	Tim Crank	Harris	618-539-3180	0745	1630
10/13/99	Charles Dutton	Harris	"	0745	1630
10/13/99	Tim C. Jones	OBG	314-280-6433	1140	1440
12/13/99	Darren Thompson	OBG	314-280-6692	0740	1500
12/13/99	Bill Wright	OBG	314-280-6434	1400	1805
12/13/99	Nick Jenkins	OBG	314-842-4550	1400	1815
	Erik Lynn	KFW		0300	1600

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION - MILITARY (ER 415-1-302)	THE OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	069
PROJECT Solutia Sauget Area 1 Sauget, IL	DATE	14 December, 99
	CONTRACT NO.	
CONTRACTOR O'Brien Gere	WEATHER	Cloudy, Temp. 40°F
<p>CQC Inspection phases attended and instruction given:</p> <p>1) Slug Testing: Completed boring to 80 feet on ST-N-D.</p> <p>2) Downgradient Alluvial Aquifer Sampling: Collected samples from AA-I-S3(110-114), AA-I-S1(17-21), and AA-GHL-S3(20-24)</p>		
<p>Results of QA inspections and tests, deficiencies observed, actions taken and corrective action of contractor. Include comment pertaining to contractors CQC activities.</p> <p>1) Alluvial Aquifer sampling is taking a lot of time. The turbidity is not going below 5 NTU's as required in the FSP so purging continues for two hours at each interval before samples can be taken.</p>		
<p>Verbal instruction given to contractor: (Include names, reactions and remarks)</p> <p>1) None</p>		
<p>Has anything developed on the work, which might lead to a change order or finding of fact? NO <u>YES</u></p> <p>1) Piezometers for the Slug Tests are being installed outside the fill areas, the FSP section 5.14 indicates they will be installed at the fill areas. This issue has been brought to the attention of Tim Gouger(USACE) and Michael McAteer(USEPA). Erik Kemper (Weston) also noted the Question during the Preparatory Inspection Meeting on 12-6-99.</p>		
<p>Information on progress of work, causes for delays and extent of delays, weather, plant, material, etc.</p> <p>1) Extending beyond the site boundaries for soil gas survey poses access issues with several sites --I (village of Sauget), H (Village of Sauget, Rogers Cartage), G (Queeny Rd. & Cerro Copper). OBG will get what they can and Solutia will work on getting access from the appropriate parties.</p> <p>2) Rogers Cartage has denied access to Solutia for any future work.</p>		
<p>Information, instructions or actions taken not covered on QCR report or disagreement:</p> <p>1) None</p>		

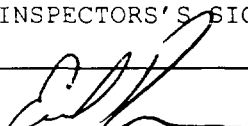
SAFETY: (Include any infractions of approved safety plan, safety manual or instructions From Government personnel. Specify corrective action taken.)

1) None

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.)

Tim Gouger and Michael McAteer arrive on site. We visited Sites I,H,N and AA-GHL-S3. I showed them where the slug test wells were being installed in relation to the corresponding Waste Sites. We also looked at the Rogers Cartage Property to get an idea of what the issues are for continuing work there. When we returned to the office Mike asked Kimberly about the Slug Test Placement, the method for locating the western waste boundary at Site G, and why the Sediment Sampling has not started yet. Kimberly's response was fairly vague to these issues.

Mike M. and Tim G. also have a meeting scheduled with Mike Light(Solutia) to help resolve these issues.

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIALS	DATE
	12-14-99		

Dec 14

Tim Gager - Mike McAteer arrive on site today and we discussed some of the issues at hand such as Slug Tests, Sediment Sampling, Site G boundary delineation. Since Tim hasn't been on site very much I thought it would be good to drive and show him first hand of the discrepancies at hand, mainly the slug test placement.

~~They~~ We all agree that Solitia is not doing what the plan asked - to put these tests at the waste fill areas.

Kimberly said she thought the plan said "adjacent to" the fill areas so she purposely picked areas away from the sites in native soils.

Tim leaves for home today
Mike will be here the rest of the week

DAILY WORK LOG

DATE 14 DEC 99

PROJECT NAME Solutra - Sargent Area /

PROJECT LOCATION W. of I, W. of GHL, E. of N

WEATHER partly cloudy

PRECIPITATION 9.m. light drizzle

TEMPERATURE ~40°F

NUMBER OF HOURS WORKED 63.5

NUMBER OF EMPLOYEES 7

1. ITEMS WORKED ON (ITEM NO., DESCRIPTION, STA. TO STA., FOREMAN)

2. INSTRUCTIONS RECEIVED FROM SOLUTIA

3. INSTRUCTIONS RECEIVED FROM USEPA

4. DEVIATIONS

5. VISITORS (NAMES & TITLES)

6. EQUIPMENT

7. LUNCH MEETING COMMENTS:

8. UNUSUAL EVENTS (FIRE, FLOOD, STORM, LABOR DISPUTES, ETC.)

9. REMARKS:

① - Collected AA-I-52-(110-114 FT) (at bedrock), AA-I-51-(1721 FT), and AA-GHL-53-(20-24 FT)

- Completed logging of deep boring to 80 Fbg for slug tests E. of Site N
- Collected grain size analysis samples E. of Site N
- Coordinated future sampling activities

② None

③ None

④ None

⑤ See attached visitors logs - USACE + USEPA

⑥ 2 Geoprobe rigs, 1 drill rig, support vehicles, H+ Equip, sampling equip., monitoring equip.

⑦ None

⑧ None

⑨ None

SUBMITTED TO WESTON 14 DEC 99 @ 1845

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

DE Hardink / DE Hardink / 14 DEC 99
PRINTED NAME / SIGNATURE OF PREPARER / DATE

(12-14-99)

[illegible]

SITE VISITOR LOG

Solutia Inc.
Sauget Area 1
(Please Print)

[illegible]

WORK FORECAST

Work Forecast for the day week: 15 DEC 99

Date: 14 DEC 99

Project Name: Salutia - Sangre Area 1

Project Location: W of I, W of GHL, E of N

Company Name: OBG

1. List Work Items and Locations Scheduled for Next Day/Week:

- Continue GW samp. W. of I (S1) and W. of GHL (S2)
- Begin installing piezometers for slug tests E. of N
- Continue coordinating future activities

SUBMITTED TO WESTON 14 DEC 99 @ 1845

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

DE Harsdink / D. P. Harsdink / 14 DEC 99
Name/Signature/Date of Preparer

SAFETY MEETING FORM

(Piezometer installation for slug tests)
+ Grain size analysis sampling

DATE 14 DEC 99

CONDUCTED BY / COMPANY: DE Haverdink / O'Brien & Gere

PROJECT NAME Solutia-Sauger Areal

PROJECT LOCATION E. of Site N

WEATHER cloudy

PRECIPITATION light drizzle

TEMPERATURE ~35°F

NUMBER OF HOURS WORKED —

NUMBER OF EMPLOYEES —

1. SCHEDULED WORK:

2. REFERENCES TO APPROPRIATE SECTION OF FSP & HASP:

3. HEALTH AND SAFETY ISSUES WITH SCHEDULED WORK:

4. SPECIFIC HEALTH AND SAFETY ISSUES REQUIRING ATTENTION

5. COMMENTS

- (1) Piezometer installation for slug testing; collection of grain size analysis samples
- (2) FSP # 5.14, 5.15 HASP # 2.6 (generally applicable)
- (3) Drill rig hazards of overhead falling objects, moving parts, pressurized lines, noise, CO fall-over; potential contact with impacted soil & water, impacted impacts from the boring, slips/trips/falls, muscle strain
- (4) PPE is modified level D w/ air monitoring in breathing zone using PID, RAM, 4-gas; respirator on hand if upgrade to level C is necessary; drill to inspect rig on daily basis and repair as needed
- (5) Drive w/ caution around the field office; segregate wastes; smoking in vehicles only

ATTENDANCE

EMPLOYEE NAME (print)

EMPLOYEE SIGNATURE

COMPANY

TONY FIVERT
Jim Crank
Chad Dutton
Ken Earl
Matt Stein
Ken Laferriere

[Signatures]

ORCo
Harris
Harris
Solutia
CPD
HARRIS

SUBMITTED TO WESTON 14 DEC 99 @ 0800

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

DE Haverdink / DE Haverdink
PRINTED NAME / SIGNATURE OF PREPARER

14 DEC 99

DATE

SAFETY MEETING FORM
(Down gradient alluvial aquifer sampling)

DATE 14 DEC 99

CONDUCTED BY / COMPANY: De Havendank / O'Brien & Gere

PROJECT NAME Solutia - Sanger Area 1 PROJECT LOCATION W. of I. W. of GHL

WEATHER cloudy PRECIPITATION light drizzle TEMPERATURE ~35°F

NUMBER OF HOURS WORKED 1 NUMBER OF EMPLOYEES 1

- 1 SCHEDULED WORK:
2 REFERENCES TO APPROPRIATE SECTION OF FSP & HASP:
3 HEALTH AND SAFETY ISSUES WITH SCHEDULED WORK:
4 SPECIFIC HEALTH AND SAFETY ISSUES REQUIRING ATTENTION:
5 COMMENTS:

- ① Downgradient alluvial aquifer sampling
- ② FSP # 5.9 ; HASP # 2.6 (generally applicable - not installing wells)
- ③ Potential contact with VOCs, combustible gases, splashing of water, electric shock, muscle strain, slips/trips/falls, noise
- ④ PPE is modified level D with air monitoring in breathing zone using PID + CGM; respirator on hand if upgrade to level C is necessary
- ⑤ Segregate wastes and document appropriately on waste tracking log; smoking in support vehicles only; drive with caution around field office + Cerro Copper

ATTENDANCE:

EMPLOYEE NAME (print)

EMPLOYEE SIGNATURE

COMPANY

14 April 7 DE 57

Ray J.

50/1 type

Pop M^cBraver

Ronald W. Benson

IPS

Das Gesetz

4675

LR

Matt Seidman

Mat ~~67~~ #67

CPD

DAREN THOMPSON

Chas. Higgins

086

Ein Weckruf

Copi Viteles

236

Nicolas E. Jenkins

Nicolas J. Jenkins

OBG

William E. Wright

William E. Wright

000

SUBMITTED TO WESTON 14 DEC 91 C 0800

**IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE**

DE Havardak / DE Havardak
PRINTED NAME / SIGNATURE OF PREPARER

14 DEC 99
DATE

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION - MILITARY (ER 415-1-302)	THE OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	070
PROJECT Solutia Sauget Area 1 Sauget, IL	DATE	15 December, 99
	CONTRACT NO.	
CONTRACTOR O'Brien Gere	WEATHER	Light Snow, Temp. 35°F
CQC Inspection phases attended and instruction given: 1) Slug Testing: Installed well ST-N-D screened from 75 to 80 feet. 2) Downgradient Alluvial Aquifer Sampling: Collected samples from AA-I-S1(27-31), (37-41) and AA-GHL-S3(30-34), (40-44)		
Results of QA inspections and tests, deficiencies observed, actions taken and corrective action of contractor. Include comment pertaining to contractors CQC activities. 1) These are the last two downgradient aquifer sample locations, the process is still slow but they should finish this task early next week. 2) There is still no word as to when sediment sampling will begin.		
Verbal instruction given to contractor: (Include names, reactions and remarks) 1) A meeting between Mike McAteer, Tim Gouger, and Mike Light discussed some of the issues on site. The point was made clear to Mike Light (Solutia) that there is concern with the placement of the slug test wells, all locations are outside of the fill areas. (Detailed notes from the meeting are attached to this report)		
Has anything developed on the work, which might lead to a change order or finding of fact? NO <u>YES</u> 1) Piezometers for the Slug Tests are being installed outside the fill areas, the FSP section 5.14 indicates they will be installed at the fill areas. This issue has been brought to the attention of Tim Gouger(USACE) and Michael McAteer(USEPA). Erik Kemper (Weston) also noted the Question during the Preparatory Inspection Meeting on 12-6-99.		
Information on progress of work, causes for delays and extent of delays, weather, plant, material, etc. 1) Extending beyond the site boundaries for soil gas survey poses access issues with several sites --I (village of Sauget), H (Village of Sauget, Rogers Cartage), G (Queeney Rd. & Cerro Copper). OBG will get what they can and Solutia will work on getting access from the appropriate parties. 2) Rogers Cartage has denied access to Solutia for any future work.		

Information, instructions or actions taken not covered on QCR report or disagreement:

1) None

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions From Government personnel. Specify corrective action taken.)

1) None

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.)

INSPECTORS' S SIGNITURE

DATE

SUPERVISOR'S
INITIALS

DATE

12-15-99

SAUGET TRIP REPORT December 14 thru 15, 1999

December 16, 1999

MEETING DATE: December 15, 1999, 1:30 pm

PARTICIPANTS: Mike McAteer, Tim Gouger, Mike Light

ISSUES

1. **Wiese Property Characterization.** Solutia plans to characterize waste from Site G westward through the use either an auger or push technology. McAteer and Gouger shared their concerns for usage of push technology; namely, the 1" spoon used to collect the sample may well preclude recovery of waste and therefore not adequately characterize the site. We recommended they use an auger approach, with a 4" minimum diameter.
2. **Slug Test.** Gouger, Kemper, and McAteer toured the site and observed proposed locations for the slug tests, which were outside site boundaries for every site. We asked Mike Light: "How does Solutia plan to use the data?" We expressed concern that the locations will provide gross hydrogeologic estimates for consolidated media (native soil) though the source areas are filled with unconsolidated waste debris. How will Solutia address the source areas with the information?
3. **Analysis:** The Field Sampling Plan states the alluvial aquifer samples will be developed for 2 hours or until 5 NTU are reached. As some samples read greater than 5 NTU (some are several thousand NTU after 2 hrs), considerable solids are now part of the sample. How does Solutia plan to analyze the samples? Will the solids be part of the sample, will the sample be decanted before analysis, will the sample be filtered before analysis, or will Solutia run both total and dissolved analysis for some samples?

(After discussion with Jim Beran, Thursday December 16, 1999, he recommends identifying the higher turbidity samples, determining ranges for the samples, and performing some analyses for total and dissolved parameters within those ranges).

4. **Sediment Sampling.** McAteer asked why the creek sediment sampling has not taken place yet, though the plan was to have begun by now. Gouger pointed out the creek had been dry since commencing with the work in September, 99, now water is impounded in much of the creek sections. Getting the analyses back from the creek is critical to evaluating the transects and overall characterization. McAteer stated the public has been questioning why the environmental documentation will take so long. McAteer would like to not only see sediment sampling begin but also see schedule acceleration for documentation and subsequent work.

5. **Transects.** McAteer asked when we will see the plan for sampling developed properties along the transects? Light responded getting the information sooner may yield public relation problems (i.e. some properties may have dioxins greater than 1 ppb and therefore require removal). Light would like for the TSCA cell to be underway before releasing the information so they can do something about removals in an expeditious manner. McAteer will provide HQ US EPA Dioxin guidance to Light for more information about detection levels for dioxins.
6. **Right of Access.** Roger's Cartage has denied RoA for groundwater sampling and soil gas survey. Solutia has relocated the background groundwater sample to the nearby park and Roger's Cartage has allowed the SGS to commence.

Dec 15

OBG spending more time
preparing for Sediment Sampling Event
but still no word on when they
will begin.

Mike M + Tim G were to have a
meeting with Mike Light today about
slug tests, assess issues, site G secondary
They will let me know the outcome

OBG working on AA-F-S1, AA-GHL-S3
and slug tests at site N

DAILY WORK LOG

DATE 15 DEC 99

PROJECT NAME Solutia - Sanger Area 1

PROJECT LOCATION W. of I. W. of G. H. E. of N

WEATHER cloudy & windy

PRECIPITATION light snow - no accum.

TEMPERATURE ~35°F

NUMBER OF HOURS WORKED 54

NUMBER OF EMPLOYEES 7

1. ITEMS WORKED ON (ITEM NO., DESCRIPTION, STA. TO STA., FOREMAN)
2. INSTRUCTIONS RECEIVED FROM SOLUTIA
3. INSTRUCTIONS RECEIVED FROM USEPA
4. DEVIATIONS
5. VISITORS (NAMES & TITLES)
6. EQUIPMENT
7. LUNCH MEETING COMMENTS:
8. UNUSUAL EVENTS (FIRE, FLOOD, STORM, LABOR DISPUTES, ETC.)
9. REMARKS:

① - Installed ST-N-D, screened at 75-80 fmg, E. of Site N
 Collected AA-I-S1-(27-31 FT), (27-31 FT-MS), (27-31 FT-MSD), (37-41 FT);
 Collected AA-GH2-S2-(30-34 FT), (30-34 FT-FD), (40-44 FT)
 Coordinated future activities

② None
 ③ None
 ④ None

⑤ ~~None~~ See attached visitors log

⑥ 2 Geoprobe rigs, 1 drill/rig, sampling equip., support vehicles, H&S equip.,
 monitoring equip.

⑦ None
 ⑧ None
 ⑨ None

SUBMITTED TO WESTON 15 DEC 99 @ 1730

IF ADDITIONAL SPACE IS REQUIRED,
 RECORD ON REVERSE SIDE

DEHavard/JP/15 DEC 99
 PRINTED NAME / SIGNATURE OF PREPARER / DATE

Slug test piez. inst.
E. of N

SITE VISITOR LOG

Solutia Inc.
Sauget Area 1
(Please Print)

[illegible]

SITE VISITOR LOG

Solutia Inc.
Sauget Area 1
(Please Print)

Date	Name	Organization	Phone #	Time In	Time Out
10/15/99	Kamberly Perry	Solutra	314-674-2482	0635	1312
10/15/99	Evelyn Adams Long	Cabotia Palace	618-337-9505	0700	1430
10/15/99	William F Wright	OBSG	314-280-6434	0655	1400
10/15/99	Darren S Thompson	OBSG	314-393-7692	0655	1400
10/15/99	COLIN WELLENKAMP	OBSG	842-4550	0700	1445
10/15/99	Ron Loffredo	MARZOLICH		0710	1615
10/15/99	Tony Finest	OBSG		0710	1630
10/15/99	Nick Jenkins	OBSG	314-642-4550	0715	1800
10/15/99	Larry Hurdink	OBSG	314-280-6435	0700	1615
10/15/99	Ron McBrayer	FPS	615-244-7900	0730	1610
10/15/99	Ron Corbett	FPS	615-244-7900	0730	1610
10/15/99	Chad Dutton	Harris		0720	1435
10/15/99	Tom Cant	HARRIS		0730	1435
10/15/99	Tina Tedesco	OBSG	314-280-6433	0805	0945
	Eukkyun	RFW		0850	1600
	Gaudin	USACE		0915	920
	McBryer	US EPA		0915	920

WORK FORECAST

Work Forecast for the day/week: 16 DEC 99

Date: 15 DEC 99

Project Name: Solutia - Sanget Area 1

Project Location: W. of I, W. of GHL, E. of N

Company Name: OBG

1. List Work Items and Locations Scheduled for Next Day/Week:

- Continue GWL sampling W. of I (S1) and W. of GHL (S3)
- Continue installation of piezometers for slug tests E. of N
- Continue coordination of future activities

SUBMITTED TO WESTON 15 DEC 99 @ 1730

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

DE Howard H. / 15 DEC 99
Name/Signature/Date of Preparer

SAFETY MEETING FORM

(Downgradient alluvial aquifer sampling)

DATE 15 DEC 99

CONDUCTED BY / COMPANY: DE Havardink / O'Brien + Gere

PROJECT NAME Solutia - Saugee Area 1

PROJECT LOCATION W. of I + W. of GHL

WEATHER cloudy + windy

PRECIPITATION light snow 2 in.

TEMPERATURE -40°F

NUMBER OF HOURS WORKED —

NUMBER OF EMPLOYEES —

1. SCHEDULED WORK:

2. REFERENCES TO APPROPRIATE SECTION OF FSP & HASP:

3. HEALTH AND SAFETY ISSUES WITH SCHEDULED WORK:

4. SPECIFIC HEALTH AND SAFETY ISSUES REQUIRING ATTENTION:

5. COMMENTS:

① Downgradient alluvial aquifer sampling

② FSP # 5.9 ; HASP # 2.6 (generally applicable - not installing wells)

③ Potential contact with VOCs, combustible gases, splashing of water, electric shock, muscle strain, slips/trips/falls, noise, cold weather

④ PPE is modified level D with air monitoring in breathing zone using PID + CGM; respirator on hand if upgrade to level C is necessary

⑤ Segregate wastes and document appropriately on waste tracking log; smoking in support vehicles only; drive with caution around field office + watch speed on Carro

ATTENDANCE:

EMPLOYEE NAME (print)

EMPLOYEE SIGNATURE

COMPANY

Don Gurett

[Signature]

Solutia

Gordon Perry

[Signature]

MAUERICK

John Willemsen

[Signature]

OBG

William E. Wright

[Signature]

OBG

Mike Jenkins

[Signature]

OBG

SUBMITTED TO WESTON 15 DEC 99 C 0810

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

DE Havardink / DE Havardink

PRINTED NAME / SIGNATURE OF PREPARER

15 DEC 99

DATE

SAFETY MEETING FORM
(Piezometer installation for slug tests)

DATE 15 DEC 99

CONDUCTED BY / COMPANY: DE Haverdink / O'Brien + Gere

PROJECT NAME Solutia - Sargent Areal PROJECT LOCATION E. of Site A

WEATHER cloudy + windy PRECIPITATION light snow a.m. TEMPERATURE -40°F

NUMBER OF HOURS WORKED — NUMBER OF EMPLOYEES —

1. SCHEDULED WORK:
2. REFERENCES TO APPROPRIATE SECTION OF FSP & HASP:
3. HEALTH AND SAFETY ISSUES WITH SCHEDULED WORK:
4. SPECIFIC HEALTH AND SAFETY ISSUES REQUIRING ATTENTION:
5. COMMENTS:

① Piezometer installation for slug testing.

② FSP # 5.14 HASP # 2.6 (generally applicable)

③ Drill rig hazards of overhead falling objects, moving parts, pressurized lines, noise, CO roll-over; potential contact with impacted soil + water, impacted impacts from the boring, slips / trips / falls, muscle strain, cold weather effects

④ PPE is modified level D w/ air monitoring in breathing zone using PID, RAM, 4-gas; respirator on hand if upgrade to level C is necessary; distiller to inspect rig on daily basis and repair as needed

⑤ Drive w/ caution around the field office; segregate wastes; smoking in vehicles only

ATTENDANCE

EMPLOYEE NAME (print)

EMPLOYEE SIGNATURE

COMPANY

Tim Clark
Fred Dutton
Kimberly Porter
Tony Finney
Sgt. Andrew Gage

[Signature]
[Signature]
[Signature]
[Signature]
[Signature]

HARRISS
HARRISS
Solutia
ORIG
Columbia P.D.

SUBMITTED TO WESDON 15 DEC 99 @ 0810

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

DE Haverdink / G.E. Haverdink
PRINTED NAME / SIGNATURE OF PREPARER

15 DEC 99

DATE

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION - MILITARY (ER 415-1-302)	THE OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	071
PROJECT Solutia Sauget Area 1 Sauget, IL	DATE	16 December, 99
	CONTRACT NO.	
CONTRACTOR O'Brien Gere	WEATHER	Clear, Temp. 35°F
CQC Inspection phases attended and instruction given: 1) Slug Testing: Installed well ST-N-D screened from 75 to 80 feet. 2) Downgradient Alluvial Aquifer Sampling: Collected samples from AA-I-S1(47-51), (57-61) and AA-GHL-S3(50-54), (60-64)		
Results of QA inspections and tests, deficiencies observed, actions taken and corrective action of contractor. Include comment pertaining to contractors CQC activities. 1) These are the last two downgradient aquifer sample locations, the process is still slow but they should finish this task early next week. 2) There is still no word as to when sediment sampling will begin.		
Verbal instruction given to contractor: (Include names, reactions and remarks) 1) None		
Has anything developed on the work, which might lead to a change order or finding of fact? NO <u>YES</u> 1) Piezometers for the Slug Tests are being installed outside the fill areas, the FSP section 5.14 indicates they will be installed at the fill areas. This issue has been brought to the attention of Tim Gouger(USACE) and Michael McAteer(USEPA). Erik Kemper (Weston) also noted the Question during the Preparatory Inspection Meeting on 12-6-99. A meeting was held on 12-15-99 with Mike Light regarding this issue and others from this project. See QAR # 70 Dec. 15 th , 1999.		
Information on progress of work, causes for delays and extent of delays, weather, plant, material, etc. 1) Extending beyond the site boundaries for soil gas survey poses access issues with several sites --I (village of Sauget), H (Village of Sauget, Rogers Cartage), G (Queeny Rd. & Cerro Copper). OBG will get what they can and Solutia will work on getting access from the appropriate parties. 2) Rogers Cartage has allowed Solutia to perform the soil gas survey on their property but the background water sampling will be done elsewhere, this is agreeable to all parties including USEPA and USACE.		

Information, instructions or actions taken not covered on QCR report or disagreement:

1) None

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions From Government personnel. Specify corrective action taken.)

1) None

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.)

Talked with Steve Brodman today to coordinate the handling and splitting of the ecological samples. He is also looking into options for an alternate lab, which may be more cost effective for so few samples.

INSPECTORS'S SIGNITURE

DATE

SUPERVISOR'S
INITIALS

DATE

12-16-99

Dec 16

7th of the State, looking for
he is going to be on regular trip
and send it to the State and
for all is report of work

Total and Desired ability
either or state up sample

Whether stopped by one and
still not at 25 to 30 per cent
there again, being and a back door
is being improved, improvement, therefore
no taking part in doing these things

DAILY WORK LOG

DATE 16 DEC 99

PROJECT NAME Solution - Sanger Area

PROJECT LOCATION W. of I. W. of GHL. E. of N

WEATHER partly cloudy

PRECIPITATION None

TEMPERATURE ~ 38°F

NUMBER OF HOURS WORKED 56

NUMBER OF EMPLOYEES ~~12~~ 6

1. ITEMS WORKED ON (ITEM NO., DESCRIPTION, STA. TO STA., FOREMAN)
2. INSTRUCTIONS RECEIVED FROM SOLUTIA
3. INSTRUCTIONS RECEIVED FROM USEPA
4. DEVIATIONS
5. VISITORS (NAMES & TITLES)
6. EQUIPMENT
7. LUNCH MEETING COMMENTS:
8. UNUSUAL EVENTS (FIRE, FLOOD, STORM, LABOR DISPUTES, ETC.)
9. REMARKS:

- ① • Installed slug test piezometers ST-N-M (screened @ 37-42 ft) and ST-N-S (screened @ 6-11 ft)
• Collected samples AA-T-51- (47-51 FT), (57-61 FT); collected samples AA-6HL-53 (50-54 FT), (60-64 FT), (60-64 FT-ER)
• Moved drums from slug test piez. inst. S. of Site H to Judith Ln. staging area

- ② Nine

- Q Nine

- ④ None

- ⑤ See attached visitors log

- ⑥ 2 Geoprobe rigs, 1 drill rig, support vehicles, 1 boom truck, H+S equip., monitoring equip., sampling equip.

- ⑦ Nine

- ⑧ Nine

- ⑨ None

SUBMITTED TO WESTON 16 DEC 99 @ 1800

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

DeHavens / DeHavens / 16 DEC 99
PRINTED NAME / SIGNATURE OF PREPARER / DATE

WORK FORECAST

Work Forecast for the day/week: 17 DEC 99

Date: 16 DEC 99

Project Name: Solutra - Sanger Area 1

Project Location: E. of I, E. of N, W. of I, W. of GHL

Company Name: O'Brien & Gere

1. List Work Items and Locations Scheduled for Next Day/Week:

- Continue DGAA sampling W. of Site I (SI) and W. of GHL (SP)
- Demob. drill rig from Site N
- Mob. drill rig to slug test location E. of Site I
- Move slug test drums from Site N to Judith Ln. staging area
- Continue coordinating future activities

SUBMITTED TO WESTON 16 DEC 99 @ 1800

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

DeHavensink / DEHavensink / 16 DEC 99
Name/Signature/Date of Preparer

WORK FORECAST

Work Forecast for the day/week: 20 DEC 99

Date: 16 DEC 99

Project Name: Solutra-Sanget Area

Project Location: W. of I, W. of GHL, E. of I, soil
gas transects NW + SE of H + E. of I

Company Name: O'Brien & Gere

1. List Work Items and Locations Scheduled for Next Day/Week:

- Continue DGAA sampling W. of I (SI) and W. of GHL (S2)
- Continue installing slug test piezometers E. of Site I
- Perform soil gas survey (MIP) NE + SE of Site H and
E. of Site I
- Begin creek sed. samp. field activities

Note: No field activities are planned on Dec. 23 + 24 of this
week.

SUBMITTED TO WESTON @ 16 DEC 99 @ 1800

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

DE Hardin / D. Blum / 16 DEC 99
Name/Signature/Date of Preparer

SAFETY MEETING FORM

(Piezometer installation for slug tests)

CONDUCTED BY / COMPANY: DE Haverdink / O'Brien + Gere DATE 16 DEC 99

PROJECT NAME Solutia-Sauger Areal PROJECT LOCATION E. of N., possibly E. of I

WEATHER partly cloudy PRECIPITATION none TEMPERATURE ~30°F

NUMBER OF HOURS WORKED — NUMBER OF EMPLOYEES —

1. SCHEDULED WORK:
2. REFERENCES TO APPROPRIATE SECTION OF FSP & HASP:
3. HEALTH AND SAFETY ISSUES WITH SCHEDULED WORK:
4. SPECIFIC HEALTH AND SAFETY ISSUES REQUIRING ATTENTION:
5. COMMENTS:

- ① Piezometer installation for slug testing.
- ② FSP # 5.14 HASP # 2.6 (generally applicable)
- ③ Drill rig hazards of overhead falling objects, moving parts, pressurized lines, noise, CO, roll-over; potential contact with impacted soil & water, impacted vapors from the boring, slips / trips / falls, muscle strain, cold weather
- ④ PPE is modified level D w/ air monitoring in breathing zone using PID, RAM, 4-gas; respirator on hand if upgrade to level C is necessary; drillers to inspect rig on daily basis and repair as needed
- ⑤ Drive w/ caution around the field office; segregate wastes; smoking in vehicles only

ATTENDANCE

EMPLOYEE NAME (print)	EMPLOYEE SIGNATURE	COMPANY
Jim Crank	<i>[Signature]</i>	Harris
Chad Dutton	<i>[Signature]</i>	Harris
Tom Jones	<i>[Signature]</i>	OBG
Kevin Perry	<i>[Signature]</i>	Solutia
Kevin Perry	<i>[Signature]</i>	UNIMETRIC
Levy Madsen	<i>[Signature]</i>	PD Cahokia R
Tommy Pruitt	<i>[Signature]</i>	OBG

SUBMITTED TO WESTON 16 DEC 99 @ 0930

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

DE Haverdink / DE Haverdink
PRINTED NAME / SIGNATURE OF PREPARER

16 DEC 99
DATE

SAFETY MEETING FORM

(Downgradient alluvial aquifer sampling)

DATE 16 DEC 99

CONDUCTED BY / COMPANY: DE Haverdink / O'Brien + Gere

PROJECT NAME Solutia - Saugeat Area 1

PROJECT LOCATION Wot I, W. at GHL

WEATHER partly cloudy

PRECIPITATION none

TEMPERATURE ~30°F

NUMBER OF HOURS WORKED —

NUMBER OF EMPLOYEES —

1. SCHEDULED WORK:

2. REFERENCES TO APPROPRIATE SECTION OF FSP & HASP:

3. HEALTH AND SAFETY ISSUES WITH SCHEDULED WORK:

4. SPECIFIC HEALTH AND SAFETY ISSUES REQUIRING ATTENTION:

5. COMMENTS:

- ① Downgradient alluvial aquifer sampling
- ② FSP # 5.9 ; HASP # 2.6 (generally applicable - not installing wells)
- ③ Potential contact with VOCs, combustible gases, splashing of water, electric shock, muscle strain, slips/trips/falls, noise, cold weather
- ④ PPE is modified level D with air monitoring in breathing zone using PID + CGM; respirator on hand if upgrade to level C is necessary
- ⑤ Segregate wastes and document appropriately on waste tracking log; smoking in support vehicles only; drive with caution around field office

ATTENDANCE:

EMPLOYEE NAME (print)

EMPLOYEE SIGNATURE

COMPANY

Ron M. Braxier
Dale Corbett
Tim Tedesco
Ken Lafferty
Kumbari Neri
William E. Wright
Owen Thompson

[Signature]
[Signature]
[Signature]
[Signature]
[Signature]
[Signature]
[Signature]

TPS
TPS
OVBG
INTEGRICK
Solutia
O'Brien
O'Brien

SUBMITTED TO WESTON 16 DEC 99 @ 1930

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

DE Haverdink / DE Haverdink

PRINTED NAME / SIGNATURE OF PREPARER

16 DEC 99

DATE

Solutia Inc.
Sauget Area 1
(Please Print)

Slug test piez. inst.
E. of Site N

[illegible]

Solutia Inc.
Sauget Area 1
(Please Print)

[illegible]

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION - MILITARY (ER 415-1-302)	THE OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
PROJECT Solutia Sauget Area 1 Sauget, IL	REPORT NO. DATE 17 December, 99	072
CONTRACTOR O'Brien Gere	CONTRACT NO. WEATHER Clear, Temp. 50°F	
CQC Inspection phases attended and instruction given: 1) Slug Testing: Finished slug test wells for Site N and mobilized to location East of Site I 2) Downgradient Alluvial Aquifer Sampling: Collected samples from AA-I-S1(67-71) and AA-GHL-S3(70-74), (80-84) 3) Soil Gas Survey: Marked areas in the field for locations East of Site I and North of Site H		
Results of QA inspections and tests, deficiencies observed, actions taken and corrective action of contractor. Include comment pertaining to contractors CQC activities. 1) These are the last two downgradient aquifer sample locations, the process is still slow but they should finish this task early next week. 2) There is still no word as to when sediment sampling will begin.		
Verbal instruction given to contractor: (Include names, reactions and remarks) 1) None		
Has anything developed on the work, which might lead to a change order or finding of fact? NO <u>YES</u> 1) Piezometers for the Slug Tests are being installed outside the fill areas, the FSP section 5.14 indicates they will be installed at the fill areas. This issue has been brought to the attention of Tim Gouger(USACE) and Michael McAteer(USEPA). Erik Kemper (Weston) also noted the Question during the Preparatory Inspection Meeting on 12-6-99.		
Information on progress of work, causes for delays and extent of delays, weather, plant, material, etc. 1) Extending beyond the site boundaries for soil gas survey poses access issues with several sites --I (village of Sauget), H (Village of Sauget, Rogers Cartage), G (Queeny Rd. & Cerro Copper). OBG will get what they can and Solutia will work on getting access from the appropriate parties. 2) Rogers Cartage has allowed Solutia to perform the soil gas survey on their property but the background water sampling will be done elsewhere, this is agreeable to all parties including USEPA and USACE.		

Information, instructions or actions taken not covered on QCR report or disagreement:

1) None

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions From Government personnel. Specify corrective action taken.)

1) None

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.)

Michael McAteer stopped by before heading to Chicago. He was curious if the sediment sampling was starting yet. OBG thought it would be next week.

INSPECTORS'S SIGNITURE

DATE

SUPERVISOR'S
INITIALS

DATE

12-17-99

Dec 17

Tim Gager called and we discussed the meeting he and McAttee had with Mr. L. Gold. Most of the issues will be left to Bruce to respond to and explain their approach.

Also talked about water sampling and how the labs handle a sample with settleable solids and we probably need more information on the samples that are taken with WOO + WU's.

Gager will be out of the holidays call at home if anything is pressing.

DAILY WORK LOG

DATE 17 DEC 99

PROJECT NAME Solutia - Saugat Area

PROJECT LOCATION E. of E. W. of GHL, W. of I

WEATHER partly cloudy

PRECIPITATION none

TEMPERATURE ~50°F

NUMBER OF HOURS WORKED 54

NUMBER OF EMPLOYEES 7

1. ITEMS WORKED ON (ITEM NO., DESCRIPTION, STA. TO STA., FOREMAN)

2. INSTRUCTIONS RECEIVED FROM SOLUTIA

3. INSTRUCTIONS RECEIVED FROM USEPA

4. DEVIATIONS

5. VISITORS (NAMES & TITLES)

6. EQUIPMENT

7. LUNCH MEETING COMMENTS

8. UNUSUAL EVENTS (FIRE, FLOOD, STORM, LABOR DISPUTES, ETC.)

9. REMARKS:

① Advanced boring for geologic logging at slug test piezometer location E. of E to 50 fgs; mobilized drilling from Site N to E. of E
Staked soil gas transect locations in the field E. of E & NE of H. area
Collected AA-I-51-(67-74 FT), (67-74 FT); AA-GHL-53-(70-74 FT), (80-84 FT)
Moved drums from slug test piez. inst. at Site N to Judith Ln. staging area

② K. Perry reviewed soil gas transect locations & approved them

③ None

④ None

⑤ See visitors log

⑥ 1 Geoprobe rig; 1 drilling rig; 1 boom truck; support vehicles; H&S, sampling, & monitoring equip

⑦ None

⑧ None

⑨ None

SUBMITTED TO WESTON 17 DEC 99 @ 1730

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

DeHarvordint DE Harvordint 17 DEC 99
PRINTED NAME / SIGNATURE OF PREPARER / DATE

Solutia Inc.
Sauget Area 1
(Please Print)

[illegible]

WORK FORECAST

Work Forecast for the day/week: 20 DEC 99

Date: 17 DEC 99

Project Name: Solutia - Sauget Area

Project Location: E of I, W of GML, W of I, NE + SE of H

Company Name: OBG

1. List Work Items and Locations Scheduled for Next Day/Week:

- Continue DGAA sampling W. of I (S1) and W. of GML (S3)
- Perform soil gas survey E. of I and NE + SE of H
- Continue slug test piez. installation E. of I

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

DE Harsdink / DE Harsdink / 17 DEC 99
Name/Signature/Date of Preparer

SAFETY MEETING FORM

(Piezometer installation for slug tests)

DATE 17 DEC 99

CONDUCTED BY / COMPANY: DE Haverdink / O'Brien + Gere

PROJECT NAME Solutia - Sargent Area

PROJECT LOCATION E. of I, E. of N

WEATHER partly cloudy

PRECIPITATION NONE

TEMPERATURE ~40°F

NUMBER OF HOURS WORKED —

NUMBER OF EMPLOYEES —

1. SCHEDULED WORK:
2. REFERENCES TO APPROPRIATE SECTION OF FSP & HASP:
3. HEALTH AND SAFETY ISSUES WITH SCHEDULED WORK:
4. SPECIFIC HEALTH AND SAFETY ISSUES REQUIRING ATTENTION:
5. COMMENTS:

- (1) Piezometer installation for slug testing; move drums from slug tests E. of N to Judith Ln.
- (2) FSP # 5.14 HASP # 2.6 (generally applicable)
- (3) Drill rig hazards of overhead falling objects, moving parts, pressurized lines, noise, CO, roll-over; potential contact with impacted soil & water, impacted impacts from the boring, slips / trips / falls, muscle strain
- (4) PPE is modified level D w/ air monitoring in breathing zone using PID, RAM, 4-gas; respirator on hand if upgrade to level C is necessary; drillers to inspect rig on daily basis and repair as needed; level D for moving drums - make sure lids are tight
- (5) Drive w/ caution around the field office; segregate wastes; smoking in vehicles only

ATTENDANCE:

EMPLOYEE NAME (print)

EMPLOYEE SIGNATURE

COMPANY

Jim Grant	<i>[Signature]</i>	HARRISS
Chad Sutherland	<i>[Signature]</i>	HARRISS
Ken McFERTY	<i>[Signature]</i>	INDEPENDENCE
NUMBER 7 Rm	<i>[Signature]</i>	Solutia
TONY FINE	<i>[Signature]</i>	OSG
Tim Ledesma	<i>[Signature]</i>	OSG
DAVE GERSCHL	<i>[Signature]</i>	HARRISS DRILLING
Jeff Crank	<i>[Signature]</i>	HARRISS Drilling

SUBMITTED TO WESTON 17 DEC 99 @ 1600

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

PRINTED NAME / SIGNATURE OF PREPARER

17 DEC 99

DATE

SAFETY MEETING FORM

(Downgradient alluvial aquifer sampling)

DATE 17 DEC 99

CONDUCTED BY / COMPANY: DE Harvardink / O'Brien + Gere

PROJECT NAME Solutra - Sauger Area 1

PROJECT LOCATION Wlot I, W. of GHL

WEATHER partly cloudy

PRECIPITATION none

TEMPERATURE -40°F

NUMBER OF HOURS WORKED —

NUMBER OF EMPLOYEES —

1. SCHEDULED WORK:
2. REFERENCES TO APPROPRIATE SECTION OF FSP & HASP:
3. HEALTH AND SAFETY ISSUES WITH SCHEDULED WORK:
4. SPECIFIC HEALTH AND SAFETY ISSUES REQUIRING ATTENTION:
5. COMMENTS:

- ① Downgradient alluvial aquifer sampling
- ② FSP # 5.9 ; HASP # 2.6 (generally applicable - not installing wells)
- ③ Potential contact with VOCs, combustible gases, splashing of water, electric shock, muscle strain, slips/trips/falls, noise
- ④ PPE is modified level D with air monitoring in breathing zone using PID + CGM; respirator on hand if upgrade to level C is necessary
- ⑤ Segregate wastes and document appropriately on waste tracking log; smoking in support vehicles only; drive with caution around field office + Contra Tower

ATTENDANCE:

EMPLOYEE NAME (print)

EMPLOYEE SIGNATURE

COMPANY

Don Conerty
Ken Lafferty
Quiberty Pen
Daren Thompson
Jack Thompson
William E. Wright
Ken M. Bray

[Signatures]

FR
MORRICKS
Solutra
OHS
OHS
IRS

SUBMITTED TO WESTON 17 DEC 99 @ 1600

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

DE Harvardink / DS Harvardink
PRINTED NAME / SIGNATURE OF PREPARER

17 DEC 99

DATE

12/20/99

To Erik Kempner

Fish processing at Savannah is scheduled
for January 25 (Tues) - 26 (Wed.)

Savannah contact is Patsy Beorchamp 912-354-7858

/Laurie Perry

INSPECTORS QUALITY ASSURANCE REPORT (QAR)
DAILY LOG OF CONSTRUCTION - MILITARY (ER
415-1-302)

THE OCR WILL BE ATTACHED TO OR FILED WITH THE
QAR.

REPORT NO.

073

PROJECT

Solutia Sauget Area 1
Sauget, IL

DATE

20 December, 99

CONTRACT NO.

CONTRACTOR

O'Brien Gere

WEATHER

Cloudy, Temp. 30°F

CQC Inspection phases attended and instruction given:

- 1) **Slug Testing:** No work today, Drilling contractor called in sick.
- 2) **Downgradient Alluvial Aquifer Sampling:** Collected samples from AA-I-S1(77-81) and AA-GHL-S3(90-94), (100-104)
- 3) **Soil Gas Survey:** Survey conducted for the locations East of Site I and North of Site H. Soil Gas Survey task is complete but there two locations that were not surveyed due to physical barriers. These areas are: North of Site G due to Queeny Ave. and Cerro Copper, and West of Site I because of the Synthetic liner installed during previous site remediation.

Results of QA inspections and tests, deficiencies observed, actions taken and corrective action of contractor. Include comment pertaining to contractors CQC activities.

- 1) These are the last two downgradient aquifer sample locations, the process is still slow but they should finish this task early next week.
- 2) There is still no word as to when sediment sampling will begin.

Verbal instruction given to contractor: (Include names, reactions and remarks)

- 1) None

Has anything developed on the work, which might lead to a change order or finding of fact? NO YES

- 1) Piezometers for the Slug Tests are being installed outside the fill areas, the FSP section 5.14 indicates they will be installed at the fill areas. This issue has been brought to the attention of Tim Gouger(USACE) and Michael McAteer(USEPA). Erik Kemper (Weston) also noted the Question during the Preparatory Inspection Meeting on 12-6-99. A meeting was held with Mike Light on 12-15-99 discussing this issue, see QAR # 70.

Information on progress of work, causes for delays and extent of delays, weather, plant, material, etc.

- 1) Rogers Cartage has allowed Solutia to perform the soil gas survey on their property but the background water sampling will be done elsewhere, this is agreeable to all parties including USEPA and USACE.

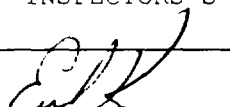
Information, instructions or actions taken not covered on QCR report or disagreement:

1 None

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions From Government personnel. Specify corrective action taken.)

1 None

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.)

INSPECTORS'S SIGNATURE	DATE	SUPERVISOR'S INITIALS	DATE
	12-20-99		

DAILY WORK LOG

DATE 20 DEC 99

PROJECT NAME Solutio - Sargat Areal

PROJECT LOCATION West E, W of Little ^{soil gas} transsects

WEATHER partly cloudy

PRECIPITATION None

TEMPERATURE -30°F

NUMBER OF HOURS WORKED 32

NUMBER OF EMPLOYEES 5

1. ITEMS WORKED ON (ITEM NO., DESCRIPTION, STA. TO STA., FOREMAN)
2. INSTRUCTIONS RECEIVED FROM SOLUTIA
3. INSTRUCTIONS RECEIVED FROM USEPA
4. DEVIATIONS
5. VISITORS (NAMES & TITLES)
6. EQUIPMENT
7. LUNCH MEETING COMMENTS:
8. UNUSUAL EVENTS (FIRE, FLOOD, STORM, LABOR DISPUTES, ETC.)
9. REMARKS:

- ① • Soil gas sampling using MIP on soil gas transects E of T (3 pts), NE of H (3 pts), SE of A (2 pts)
• DG-A sampling: AA-1-S1-(77-81 FT); 4A-6HL-S3-(90-94 FT), (100-104 FT)
• Coordinated future activities
- ② ~~AA~~ Soil gas transect locations SE of H (on Rogers Cartage) approved by K. Perry
- ③ None
- ④ None
- ⑤ See visitors log
- ⑥ 2 Geoprobe rigs for GW samp; 1 Geoprobe rig for soil gas / MIP; samp. equip, H₂S equip, monitoring equip; support vehicles
- ⑦ None
- ⑧ None
- ⑨ ~~None~~ Harries not drilling due to illness of crew member

SUBMITTED TO WESTON 20 DEC 99 C 1800

8/53

**IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE**

DE Havardink / DS Haverdink / 20 DEC 99
PRINTED NAME / SIGNATURE OF PREPARER / DATE

WORK FORECAST

Work Forecast for the Day/Week: 21 DEC 99

Date: 20 DEC 99

Project Name: Solutia - Sanger Area 1

Project Location: W of I, W of GHL, E. of I

Company Name: ORC

1. List Work Items and Locations Scheduled for Next Day/Week:

- Continue DGAA sampling W. of I (SI) and W. of GHL (SI)
- Continue ~~installation~~ ^{drilling} of boring E. of I for installation of slug test piezometers
- Continue coord. of future activities

SUBMITTED TO WESTON 20 DEC 99 @ 1800

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

DE Howard / DE Howard / 20 Dec 99
Name/Signature/Date of Preparer

SAFETY MEETING FORM

(Soil Gas Survey)

DATE 20 DEC 99

CONDUCTED BY / COMPANY: DE Hardink / O'Brien + Gere

PROJECT NAME Solutia - Sanger Area PROJECT LOCATION traverse E of I-40 NE of 44

WEATHER cloudy + windy PRECIPITATION none TEMPERATURE ~30°F

NUMBER OF HOURS WORKED — NUMBER OF EMPLOYEES —

1. SCHEDULED WORK:
2. REFERENCES TO APPROPRIATE SECTION OF FSP & HASP:
3. HEALTH AND SAFETY ISSUES WITH SCHEDULED WORK:
4. SPECIFIC HEALTH AND SAFETY ISSUES REQUIRING ATTENTION:
5. COMMENTS

- ① Soil gas survey using MIP for total VOCs
- ② FSP # 5.2 ; HASP # 2.2
- ③ Slips/trips/falls ; muscle strain ; noise ; electric shock ; potential inhalation of impacted air ; potential contact w/ impacted soil from rods ; cold weather
- ④ PPE is level D w/ chemical resistant gloves handling rods + hearing protection
- ⑤ Drive with caution at Cento Coffer + around field office

ATTENDANCE

EMPLOYEE NAME (print)	EMPLOYEE SIGNATURE	COMPANY
<u>Kimberly Perry</u>	<u>[Signature]</u>	<u>Solutia</u>
<u>John W. Haggart</u>	<u>[Signature]</u>	<u>IPS</u>
<u>Tim J. Desco</u>	<u>[Signature]</u>	<u>ORC</u>
<u>Paul Lafferty</u>	<u>[Signature]</u>	<u>MAVERICK</u>
<u>William E. Wright</u>	<u>[Signature]</u>	<u>ASB</u>

SUBMITTED TO WESTON 20 DEC 99 @ 1800

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

DE Hardink / DE Hardink
PRINTED NAME / SIGNATURE OF PREPARER

20 DEC 99
DATE

SAFETY MEETING FORM

(Down gradient alluvial aquifer sampling)

DATE 20 DEC 99

CONDUCTED BY / COMPANY: DE Hardink / O'Brien & Gere

PROJECT NAME Solutra - Sauger Area 1 PROJECT LOCATION Wiat, W. of GHL

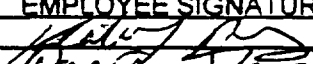
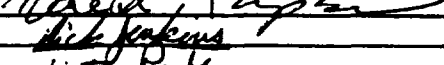
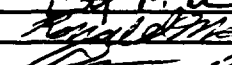

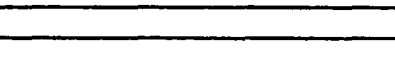
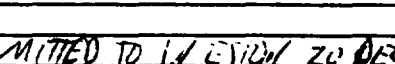

WEATHER Cloudy & windy PRECIPITATION None TEMPERATURE ~30°F

NUMBER OF HOURS WORKED — NUMBER OF EMPLOYEES —

1. SCHEDULED WORK:
2. REFERENCES TO APPROPRIATE SECTION OF FSP & HASP:
3. HEALTH AND SAFETY ISSUES WITH SCHEDULED WORK:
4. SPECIFIC HEALTH AND SAFETY ISSUES REQUIRING ATTENTION:
5. COMMENTS:

- ① Down gradient alluvial aquifer sampling
- ② FSP # 5.9 ; HASP # 2.6 (generally applicable - not installing wells)
- ③ Potential contact with VOCs, combustible gases, splashing of water, electric shock, muscle strain, slips/trips/falls, noise, cold
- ④ PPE is modified level D with air monitoring in breathing zone using PID + CGM; respirator on hand if upgrade to level C is necessary
- ⑤ Segregate wastes and document appropriately on waste tracking log; smoking in support vehicles only; drive with caution around field office & Cerra Capet

ATTENDANCE:

EMPLOYEE NAME (print)	EMPLOYEE SIGNATURE	COMPANY
Kimberly Lee		Solutra
DARIN THOMPSON		O&G
Nick Jenkins		O&G
Jim Tedesco		O&G
Ben McBrayer		I&S
Van Carati		TPS
Ken Lafferty		MAVERICK

SUBMITTED TO L.A. 12/20/99 20 DEC 99 C (1800)

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

DE Hardink / DE Hardink
PRINTED NAME / SIGNATURE OF PREPARER

20 DEC 99

DATE

Solutia Inc.
Sauget Area 1
(Please Print)

Name	Organization	Phone #	Time
Kimberly Perry	SOLITA	814-671-3102	
M. Jenkins	OBG	314-512-4550	10795
Dave Haverdink	OBG	314-280-6435	0700
Bill Wright	OBG	314-280-6434	0700
Tina Tellez	OBG	314-280-6434	0700
Karl Lafferty	MANUFACTURE		
Ron Carter	IPS	618-244-1022	
Bert M. Baer	IPS	" "	0715
Johal Virekhi	IPS	" "	1516
Doreen Tyson	OBG	314 383 7692	0715
Felix K.	KFW		915
Dave Haverdink	OBG	314 280 6435	1750

DAILY WORK LOG

DATE 21 DEC 99

PROJECT NAME Solutra - Sanjet Area

PROJECT LOCATION E of I, W of E, W of GHL

WEATHER partly cloudy

PRECIPITATION NONE

TEMPERATURE ~20°F

NUMBER OF HOURS WORKED 49

NUMBER OF EMPLOYEES 5

1. ITEMS WORKED ON (ITEM NO., DESCRIPTION, STA. TO STA., FOREMAN)
2. INSTRUCTIONS RECEIVED FROM SOLUTIA
3. INSTRUCTIONS RECEIVED FROM USEPA
4. DEVIATIONS
5. VISITORS (NAMES & TITLES)
6. EQUIPMENT
7. LUNCH MEETING COMMENTS:
8. UNUSUAL EVENTS (FIRE, FLOOD, STORM, LABOR DISPUTES, ETC.)
9. REMARKS:

① - Completed logging of boring E. of I for slug test piezometer installations to 80 Fbg
 - Conducted prelim. insp. mtg. for industry-specific creek sampling
 - Collected DGAA samples AA-I-SI - (87-91 FT), (87-91 FT - FD), (97-101 FT); collected AA-GHL-S3 (110-114 FT), (110-114 FT - MS), (110-114 FT - MSD); E. Kemper of Weston split samples at AA-I-SI - (87-91 FT) and at AA-GHL-S3 - (110-114 FT); DGAA is complete sampling

② None
 ③ None
 ④ None

⑤ See visitors log

⑥ 2 Geoprobe rigs; 1 drilling; support vehicles; H&S, monitoring, + samp-equip.

⑦ None
 ⑧ None
 ⑨ None

CC : K. Perry 21 DEC 99
 E. Kemper © 1980

IF ADDITIONAL SPACE IS REQUIRED,
 RECORD ON REVERSE SIDE

DeHavensink / DeHavensink 21 DEC 99
 PRINTED NAME / SIGNATURE OF PREPARER / DATE

PREPARATORY INSPECTION MEETING

(Page 1/2)

Conducted by/Company: DE Haverdink / O'Brien + Gere

Date: 21 DEC 99

Project Name: Solutia - Sargent Area 1

Task: Sediment sampling - industry specific

1. Scheduled Work:

see below

2. Equipment, Procedures, Personnel:

" "

3. Ref. To App. Sec. of FSP/HASP:

FSP # 5.20.1-3 / HASP # 2.9

4. Issues that could arise and how to resolve:

see below

5. Solutia comments:

" "

6. EPA comments:

" "

- ① Sediment sampling for industry-specific constituents in undeveloped + developed areas of Dead Creek and in Borrow Pit Lake; 105 sed. samples
- Collect 50 sed. samples in CS-B + CS-F; ~ evenly spaced within each sub-segment; ~~sed~~ obtained within 10' of upstream + downstream end of each culvert (does not apply to CS-F downstream of Borrow Pit Lake)
 - Collect 47 sed. samples in CS-C, CS-D, + CS-E; ~ evenly spaced within each sub-segment; obtained within 10' of upstream + downstream end of each culvert
 - Collect 8 sed. samples in Borrow Pit Lake upstream of Dead Creek confluence; ~ evenly spaced at 400' intervals
 - Perform sed. depth measurements in channel at 3 locations at each collection interval; sample collected from 0-12" at the thickest sed. profile; sed. ~~depth~~ color change used to ID sed. profile bottom; creek cross section surveyed at each sampling station; NO sed. depths or cross sections done in Borrow Pit Lake
 - Borrow Pit Lake sampling collected along approx. centerline of lake

ATTENDANCE:

EMPLOYEE NAME (print)

EMPLOYEE SIGNATURE

COMPANY

Erik Kemper

E.H.

REG

Kimberly Perry

Kimberly

Solutia

Ken LAFERTY

Ken

MARCELIC

CC: K. Perry

21 DEC 99

E. Kemper

@1440

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

DE Haverdink / O'Brien + Gere

PRINTED NAME/ SIGNATURE OF PREPARER

21 DEC 99

DATE

SUBJECT:

Preparatory Insp. Mtg. (continued)

PAGE:

3/2

BY:

DEH

DATE:

12-21-89

JOB NUMBER:

Sediment sampling - industry-specific

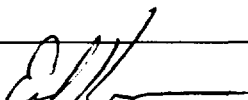
- ② Equip./Procedures: small-diameter clear tubes ^{manually} driven into sed. to ID sed. profile + depth
3" diameter clear tubes manually driven to collect samples
Waders, boat, ladder as needed to access sample locations
Sample downstream-to-upstream as feasible; gross decon w/ water before entry
Personnel: sampling → OBG; surveying → Zambrana
- ③ see page 1
- ④ Issues: sed. depth less than 12" → collect additional volume to existing depth + record
- ⑤ None
- ⑥ New OBG personnel (if applicable) to be briefed on the project + the area.
Erik will need split samples at frequency of 1/10.

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION - MILITARY (ER 415-1-302)	THE OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	074
PROJECT Solutia Sauget Area 1 Sauget, IL	DATE	21 December, 99
	CONTRACT NO.	
CONTRACTOR O'Brien Gere	WEATHER	Cloudy, Temp. 20°F
<p>CQC Inspection phases attended and instruction given:</p> <ol style="list-style-type: none"> 1) Slug Testing: Reached 80 feet for deep boring at Site I location 2) Downgradient Alluvial Aquifer Sampling: Collected samples from AA-I-S1 (87-91), (97-101) and AA-GHL-S3 (110-114). This task is complete. 3) Sediment Sampling: Conducted Preparatory Inspection Meeting (see attached) 		
<p>Results of QA inspections and tests, deficiencies observed, actions taken and corrective action of contractor. Include comment pertaining to contractors CQC activities.</p> <ol style="list-style-type: none"> 1) The last two downgradient aquifer sample locations have been completed 2) Sediment sampling will begin after the Christmas Holiday. 		
<p>Verbal instruction given to contractor: (Include names, reactions and remarks)</p> <ol style="list-style-type: none"> 1) None 		
<p>Has anything developed on the work, which might lead to a change order or finding of fact? NO <u>YES</u></p> <ol style="list-style-type: none"> 1) Piezometers for the Slug Tests are being installed outside the fill areas, the FSP section 5.14 indicates they will be installed at the fill areas. This issue has been brought to the attention of Tim Gouger (USACE) and Michael McAteer (USEPA). Erik Kemper (Weston) also noted the Question during the Preparatory Inspection Meeting on 12-6-99. A meeting was held with Mike Light on 12-15-99 discussing this issue, see QAR # 70. 		
<p>Information on progress of work, causes for delays and extent of delays, weather, plant, material, etc.</p> <ol style="list-style-type: none"> 1) None 		
<p>Information, instructions or actions taken not covered on QCR report or disagreement:</p> <ol style="list-style-type: none"> 1) None 		

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions From Government personnel. Specify corrective action taken.)

1) None

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.)

INSPECTORS'S SIGNITURE	DATE	SUPERVISOR'S INITIALS	DATE
	12-21-99		

Dec 21

Site I slug testing perimeter
deep boring to 80 ft.

Collected Split for Sample #s

AA-I-51-(87-91 ft.)

AA-GHL-53-(110-114 ft.)

Prep Meeting for Sediment Sampling today
however no sampling is expected to
begin for a few weeks

WORK FORECAST

Work Forecast for the (day) week: 22 DEC 99

Date: 21 DEC 99

Project Name: Solutra - Sauger Area 1

Project Location: E. of I, Goldok.

Company Name: ODG

1. List Work Items and Locations Scheduled for Next Day/Week:

- Continue slug test piez. inst. E. of I
- Move slug test drums from E. of I to Judith Co. ~~staging~~ staging area
- Prepare for future activities

cc: K Perry 21 DEC 99
E. Kemper C 1930

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

DeHavenslink / DeHavenslink 21 DEC 99
Name/Signature/Date of Preparer

WORK FORECAST

Work Forecast for the day/week:

27 DEC 99

Date:

21 DEC 99

Project Name:

Solutra - Sanger Area

Project Location:

Dead Creek, E of I, well & prez.

Company Name:

OBG

1. List Work Items and Locations Scheduled for Next Day/Week:

- Collect GW elev. data from existing wells + piezometers for 4th qtr 1999
- Continue slug test prez. inst. E. of I
- Begin ~~slug test~~ creek sediment field activities

Note: no field activities are planned on 27 DEC and on 31 DEC

CC: K. Perry 21 DEC 99

E. Kemper P 1930

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

DeHavardink/DeHavardink/21 DEC 99
Name/Signature/Date of Preparer

SAFETY MEETING FORM

(Downgradient alluvial aquifer sampling)

DATE 21 DEC 99

CONDUCTED BY / COMPANY DE Harvardink / O'Drient-Care

PROJECT NAME Solutra - Sargent Area 1

PROJECT LOCATION W. of I + W. of GHL

WEATHER Clear

PRECIPITATION None

TEMPERATURE ~15°F

NUMBER OF HOURS WORKED —

NUMBER OF EMPLOYEES —

1. SCHEDULED WORK:
2. REFERENCES TO APPROPRIATE SECTION OF FSP & HASP:
3. HEALTH AND SAFETY ISSUES WITH SCHEDULED WORK:
4. SPECIFIC HEALTH AND SAFETY ISSUES REQUIRING ATTENTION:
5. COMMENTS:

- ① Downgradient alluvial aquifer sampling
- ② FSP # 5.9 ; HASP # 2.6 (generally applicable - not installing wells)
- ③ Potential contact with VOCs, combustible gases, splashing of water, electric shock, muscle strain, slips/trips/falls, noise, cold
- ④ PPE is modified level D with air monitoring in breathing zone using PID + CGM. Respirator on hand if upgrade to level C is necessary; take periodic warm-up breaks
- ⑤ Segregate wastes and document appropriately on waste tracking log; smoking in support vehicles only; drive with caution around field office + Camp-Care

ATTENDANCE:

EMPLOYEE NAME (print)

EMPLOYEE SIGNATURE

COMPANY

Don McElroy

Don McElroy

DE'S

Ken Gafferty

Ken Gafferty

MMR RICK

Robert D. Remy

Robert D. Remy

S. L. STON

Nick Jenkins

Nick Jenkins

036

DAREN THOMPSON

DAREN THOMPSON

036

Ch. Corbett

Ch. Corbett

036

SUBMITTED TO DESIGN 21 DEC 99 @ 0800

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

DE Harvardink / DE Harvardink

PRINTED NAME / SIGNATURE OF PREPARER

21 DEC 99

DATE

SAFETY MEETING FORM

(Piezometer installation for slugging test)

DATE 22 DEC 99

CONDUCTED BY / COMPANY: DE Harwood / O'Brien + Gore

PROJECT NAME Solutia - Sargent Area

PROJECT LOCATION

E. of Site I

WEATHER cloudy + windy

PRECIPITATION none

TEMPERATURE ~30°F

NUMBER OF HOURS WORKED —

NUMBER OF EMPLOYEES —

1. SCHEDULED WORK:

2. REFERENCES TO APPROPRIATE SECTION OF FSP & HASP:

3. HEALTH AND SAFETY ISSUES WITH SCHEDULED WORK:

4. SPECIFIC HEALTH AND SAFETY ISSUES REQUIRING ATTENTION:

5. COMMENTS:

① Piezometer installation for slugging testing.

② FSP # 5.14 HASP # 2.6 (generally applicable)

③ Drill rig hazards of over-head falling objects, moving parts, pressurized lines, noise, CO roll-over; potential contact with impacted soil + water, impacted vapors from the boring, slips/trips/falls, muscle strain, cold

④ PPE is modified level D w/ air monitoring in breathing zone using PID, RAM, 4-gas; respirator on hand if upgrade to level C is necessary; drillar to inspect rig on daily basis and repair as needed

⑤ Drive w/ caution around the field office; segregate wastes; smoking in vehicles only

ATTENDANCE:

EMPLOYEE NAME (print)

EMPLOYEE SIGNATURE

COMPANY

Jim Crank

Chad Sutton

Ken Caffrey

Kenneth G. Gentry

William E. Wright

[Signature]

[Signature]

[Signature]

[Signature]

[Signature]

HARRIS

HARRIS

HARRIS

SLT

SLT

SLT

SUBMITTED TO REGION 214:699 @ 0800

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

DE Harwood / DE Harwood
PRINTED NAME / SIGNATURE OF PREPARER

21 DEC 99

DATE

SITE VISITOR LOG

Solutia Inc.

Sauget Area 1

(Please Print)

[illegible]

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION - MILITARY (ER 415-1-302)	THE OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	075
PROJECT Solutia Sauget Area 1 Sauget, IL	DATE	22 December, 99
	CONTRACT NO.	
CONTRACTOR O'Brien Gere	WEATHER	Cloudy, Temp. 20°F
CQC Inspection phases attended and instruction given: 1) Slug Testing: Installed deep Piezometer at Site I location 2) Downgradient Alluvial Aquifer Sampling: This task is complete. 3) Sediment Sampling: Prepared materials for work to begin.		
Results of QA inspections and tests, deficiencies observed, actions taken and corrective action of contractor. Include comment pertaining to contractors CQC activities. 1) The last two downgradient aquifer sample locations have been completed 2) Sediment sampling will begin after the Christmas Holiday.		
Verbal instruction given to contractor: (Include names, reactions and remarks) 1) None		
Has anything developed on the work, which might lead to a change order or finding of fact? NO <u>YES</u> 1) Piezometers for the Slug Tests are being installed outside the fill areas, the FSP section 5.14 indicates they will be installed at the fill areas. This issue has been brought to the attention of Tim Gouger(USACE) and Michael McAteer(USEPA). Erik Kemper (Weston) also noted the Question during the Preparatory Inspection Meeting on 12-6-99. A meeting was held with Mike Light discussing this issue on 12-15-99, see QAR # 70.		
Information on progress of work, causes for delays and extent of delays, weather, plant, material, etc. 1) None		
Information, instructions or actions taken not covered on QCR report or disagreement: 1) None		

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions From Government personnel. Specify corrective action taken.)

1) None

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.)

INSPECTORS'S SIGNITURE

DATE

SUPERVISOR'S
INITIALS

DATE

12-22-99

82

Dec 22

Working at Site I pierender
installation

No work until Dec 28th

DAILY WORK LOG

DATE 22 Dec 99

PROJECT NAME Solutia-Suyt Area 1 PROJECT LOCATION East I, Judith Lane
 WEATHER Partly Cloudy PRECIPITATION none TEMPERATURE 35°F
 NUMBER OF HOURS WORKED 47.5 NUMBER OF EMPLOYEES 5

1. ITEMS WORKED ON (ITEM NO., DESCRIPTION, STA. TO STA., FOREMAN)
2. INSTRUCTIONS RECEIVED FROM SOLUTIA
3. INSTRUCTIONS RECEIVED FROM USEPA
4. DEVIATIONS
5. VISITORS (NAMES & TITLES)
6. EQUIPMENT
7. LUNCH MEETING COMMENTS
8. UNUSUAL EVENTS (FIRE, FLOOD, STORM, LABOR DISPUTES, ETC.)
9. REMARKS

- ① Installed deep piezometer for slug testing East of site I
 - Moved drums from piezometer slug testing location to Judith Lane
 - Cleared area at site 12 for electrification
 - prepared for creek sediment sampling
- ② none
- ③ none
- ④ none
- ⑤ See visitors log
- ⑥ Drill rig, support vehicles, rental moving truck, HDS, monitoring & sampling
- ⑦ none
- ⑧ none
- ⑨ none

Submitted to Weston on 22 Dec 99 @ 1630

IF ADDITIONAL SPACE IS REQUIRED,
 RECORD ON REVERSE SIDE

Tim Tedesco / Lty P. U. / 22 Dec 99
 PRINTED NAME / SIGNATURE OF PREPARER / DATE

Solutia Inc.
Saugus Area 1
(Please Print)

[illegible]

SAFETY MEETING FORM

(Piezometer installation for slug tests)

CONDUCTED BY / COMPANY: Tim Tedesco / O'Brien & Gere

DATE 22 Dec 99

PROJECT NAME Solutia - Sargent Area

PROJECT LOCATION E. of Site I

WEATHER Cold

PRECIPITATION none

TEMPERATURE 20°F

NUMBER OF HOURS WORKED -

NUMBER OF EMPLOYEES -

1. SCHEDULED WORK:

2. REFERENCES TO APPROPRIATE SECTION OF FSP & HASP:

3. HEALTH AND SAFETY ISSUES WITH SCHEDULED WORK:

4. SPECIFIC HEALTH AND SAFETY ISSUES REQUIRING ATTENTION:

5. COMMENTS:

(1) Piezometer installation for slug testing.

(2) FSP # 5.14 HASP # 2.6 (generally applicable)

(3) Drill rig hazards of overhead falling objects, moving parts, pressurized lines, noise, CO, roll-over; potential contact with impacted soil & water, impacted vapors from the boring, slips/trips/falls, muscle strain, cold

(4) PPE is modified level D w/air monitoring in breathing zone using PID, RAM, 4-gas; respirator on hand if upgrade to level C is necessary; distiller to inspect rig on daily basis and repair as needed

(5) Drive w/ caution around the field office; segregate wastes; smoking in vehicles only

ATTENDANCE

EMPLOYEE NAME (print)

EMPLOYEE SIGNATURE

COMPANY

Tim C. Ank

Chad Dutton

Ken LAFFERTY

William E. Wright

[Signature]

[Signature]

[Signature]

[Signature]

Harris

Harris

MAURER

OGC

Submitted to Weston 22 Dec 99 00500

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

Tim Tedesco / LAFCU

PRINTED NAME / SIGNATURE OF PREPARER

WORK FORECAST

Work Forecast for the day/week: 28 Dec 99

Date: 22 Dec 99

Project Name: Sludge Supt Area 1 Project Location: E. of I.

Company Name: OBG

1. List Work Items and Locations Scheduled for Next Day/Week:

- Continue slug test piezometer installation E of I
- Begin Vely monitoring for 4699
- Prepare to start Creek Sediment Sampling
- Prepare for fibre activities

Submit to Weston on 22 Dec 99 @ 1430

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

Tim Tedesco / LTP / 22 Dec 99
Name/Signature/Date of Preparer

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION - MILITARY (ER 415-1-302)	THE OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	076
PROJECT Solutia Sauget Area 1 Sauget, IL	DATE	28 December, 99
	CONTRACT NO.	
CONTRACTOR O'Brien Gere	WEATHER	Cloudy, Temp. 40°F
CQC Inspection phases attended and instruction given: 1) Slug Testing: Installed medium(screened at 40.5-45.5 fbg) and shallow(screened at 10-15 fbg) Piezometer for Site I location 2) Downgradient Alluvial Aquifer Sampling: This task is complete. 3) Sediment Sampling: Prepared materials for work to begin. 4) OBG collected ground water elevations from Piezometers and existing wells.		
Results of QA inspections and tests, deficiencies observed, actions taken and corrective action of contractor. Include comment pertaining to contractors CQC activities. 1) The last two downgradient aquifer sample locations have been completed 2) Sediment sampling will begin after the Christmas Holiday.		
Verbal instruction given to contractor: (Include names, reactions and remarks) 1) None		
Has anything developed on the work, which might lead to a change order or finding of fact? NO <u>YES</u> 1) Piezometers for the Slug Tests are being installed outside the fill areas, the FSP section 5.14 indicates they will be installed at the fill areas. This issue has been brought to the attention of Tim Gouger(USACE) and Michael McAteer(USEPA). Erik Kemper (Weston) also noted the Question during the Preparatory Inspection Meeting on 12-6-99. A meeting was held with Mike Light discussing this issue on 12-15-99, see QAR # 70.		
Information on progress of work, causes for delays and extent of delays, weather, plant, material, etc. 1) None		
Information, instructions or actions taken not covered on QCR report or disagreement: 1) None		

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions From Government personnel. Specify corrective action taken.)

1) None

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.)

INSPECTORS' S SIGNITURE

DATE

SUPERVISOR'S
INITIALS

DATE

12-28-99

Dec 28

83

Installed medium and shallow
piezometers for site I slug tests

DAILY WORK LOG

DATE 28 DEC 99

PROJECT NAME Solutia - Saugat Area

PROJECT LOCATION E. of I; existing wells & piez.

WEATHER partly cloudy

PRECIPITATION none

TEMPERATURE ~40°F

NUMBER OF HOURS WORKED 40

NUMBER OF EMPLOYEES 4

1. ITEMS WORKED ON (ITEM NO., DESCRIPTION, STA. TO STA., FOREMAN)
2. INSTRUCTIONS RECEIVED FROM SOLUTIA
3. INSTRUCTIONS RECEIVED FROM USEPA
4. DEVIATIONS
5. VISITORS (NAMES & TITLES)
6. EQUIPMENT
7. LUNCH MEETING COMMENTS:
8. UNUSUAL EVENTS (FIRE, FLOOD, STORM, LABOR DISPUTES, ETC.)
9. REMARKS:

- ① - Completed installation of ST-I-S (screened at 40-45 fbg) and ST-I-M (screened at 40.5-45.5 fbg) E. of I for slug tests
- Collected GW elev. data from piezometers and existing wells
- ② Collect GW elev. data at 9 piez. clusters and the existing wells which were monitored last quarter (i.e. not at slug test piezometers or leachate wells), per K. Penny
- ③ None
- ④ None
- ⑤ See attached visitors log
- ⑥ 1 drill rig, support vehicles, H&S equip., monitoring equip.
- ⑦ None
- ⑧ None
- ⑨ None

cc: K. Penny
E. Kemper

28 DEC 99
@ 1800

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

DE Haverdine / D. Hammonds / 28 DEC 99
PRINTED NAME / SIGNATURE OF PREPARER / DATE

WORK FORECAST

Work Forecast for the Day week: 29 DEC 99

Date: 28 DEC 99

Project Name: Solutia - Sauget Area 1

Project Location: E of I, east of south, creek sector F

Company Name: OBG

1. List Work Items and Locations Scheduled for Next Day/Week:

Move drums from slug test piec. inst. E. of I to
Judith Ln staging area

Perform field layout of creek sed. sampling stations
(CS-F)

cc: K. Perry

28 DEC 99

E. Kemper

@ 1800

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

DE Haverdine / DE Haverdine / 28 DEC 99
Name/Signature/Date of Preparer

SAFETY MEETING FORM

(Piezometer installation for slug tests)

DATE 28 DEC 99

CONDUCTED BY / COMPANY: DE. Harwood / O'Brien & Gere

PROJECT NAME Solutia-Sanget Areal

PROJECT LOCATION E. of Site I

WEATHER partly cloudy

PRECIPITATION none

TEMPERATURE ~20°F

NUMBER OF HOURS WORKED —

NUMBER OF EMPLOYEES —

1. SCHEDULED WORK:

2. REFERENCES TO APPROPRIATE SECTION OF FSP & HASP:

3. HEALTH AND SAFETY ISSUES WITH SCHEDULED WORK:

4. SPECIFIC HEALTH AND SAFETY ISSUES REQUIRING ATTENTION:

5. COMMENTS:

- ① Piezometer installation for slug testing.
- ② FSP # 5.14 HASP # 2.6 (generally applicable)
- ③ Drill rig hazards of over-head falling objects, moving parts, pressurized lines, noise, CO roll-over; potential contact with impacted soil & water. impacted impacts from the boring, slips/trips/falls, muscle strain
- ④ PPE is modified level D w/ air monitoring in breathing zone using PID, RAM, 4-gas; respirator on hand if upgrade to level C is necessary; drill rig to inspect rig on daily basis and repair as needed
- ⑤ Drive w/ caution around the field office; segregate wastes; smoking in vehicles only

ATTENDANCE:

EMPLOYEE NAME (print)

EMPLOYEE SIGNATURE

COMPANY

Kimberly Perry

Kimberly Perry

Solutia

Chad M. Duffert

Chad M. Duffert

O'Brien & Gere

Tom Crank

Tom Crank

O'Brien & Gere

William E. Wright

William E. Wright

O'Brien & Gere

cc: K. Perry

28 DEC 99

E. Kemper

9 1630

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

DE Harwood / DE Harwood

PRINTED NAME / SIGNATURE OF PREPARER

28 DEC 99

DATE

SAFETY MEETING FORM

DATE 28 DEC 99

CONDUCTED BY / COMPANY DE Haverdink / O'Brien + Gere

PROJECT NAME Solatia - Saugus Area

PROJECT LOCATION

existing wells + piezometers

WEATHER partly cloudy

PRECIPITATION none

TEMPERATURE ~20°F

NUMBER OF HOURS WORKED

NUMBER OF EMPLOYEES

1. SCHEDULED WORK:

2. REFERENCES TO APPROPRIATE SECTION OF FSP & HASP:

3. HEALTH AND SAFETY ISSUES WITH SCHEDULED WORK:

4. SPECIFIC HEALTH AND SAFETY ISSUES REQUIRING ATTENTION:

5. COMMENTS:

① Water level readings at existing wells + piezometers

② FSP # 5.6.3 HASP # 2.5

③ Potential respiration of VOCs, exposure to combustible gases, slips/trips/falls, minimal potential exposure to impacted water

④ PPE is modified level D with splash aprons + chemical resistant gloves; air monitoring at well head w/ PID + 4 gas meter

⑤ Smoking in vehicles only; segregate waste; drive carefully around field office

ATTENDANCE:

EMPLOYEE NAME (print)

EMPLOYEE SIGNATURE

COMPANY

KIMBERLY PERRY

COLIN WELLENZAMP

DAREN THOMPSON

Kimberly Perry
Colin Wellenzamp
Daren ThompsonSolatia
O'Brien
O'BrienCC: K. Perry
E. Kemper28 DEC 99
@ 1630IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDEDE Haverdink / DE Haverdink
PRINTED NAME / SIGNATURE OF PREPARER

28 DEC 99

DATE

SITE VISITOR LOG


Solutia Inc.
Sauget Area 1
(Please Print)

[illegible]

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION - MILITARY (ER 415-1-302)	THE OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	077
PROJECT Solutia Sauget Area 1 Sauget, IL	DATE	29 December, 99
	CONTRACT NO.	
CONTRACTOR O'Brien Gere	WEATHER	Sunny, Temp. 55°F
CQC Inspection phases attended and instruction given: 1) Slug Testing: No work today. 2) Downgradient Alluvial Aquifer Sampling: This task is complete. 3) Sediment Sampling: Marking sampling locations at Creek Segment F.		
Results of QA inspections and tests, deficiencies observed, actions taken and corrective action of contractor. Include comment pertaining to contractors CQC activities. 1) The last two downgradient aquifer sample locations have been completed 2) Sediment sampling will begin after the Christmas Holiday.		
Verbal instruction given to contractor: (Include names, reactions and remarks) 1) None		
Has anything developed on the work, which might lead to a change order or finding of fact? NO <u>YES</u> 1) Piezometers for the Slug Tests are being installed outside the fill areas, the FSP section 5.14 indicates they will be installed at the fill areas. This issue has been brought to the attention of Tim Gouger(USACE) and Michael McAteer(USEPA). Erik Kemper (Weston) also noted the Question during the Preparatory Inspection Meeting on 12-6-99. A meeting was held with Mike Light discussing this issue on 12-15-99, see QAR # 70.		
Information on progress of work, causes for delays and extent of delays, weather, plant, material, etc. 1) None		
Information, instructions or actions taken not covered on QCR report or disagreement: 1) None		
SAFETY: (Include any infractions of approved safety plan, safety manual or instructions From Government personnel. Specify corrective action taken.)		

1) None

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.)

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIALS	DATE
	12-29-99		

Dec 29

ORG marking sample locations
for Sed Sampling

No other work today

DAILY WORK LOG

DATE 29 DEC 99

PROJECT NAME Solutia Sargent Area 1 PROJECT LOCATION Creek sector F; E. of I
 WEATHER clear PRECIPITATION none TEMPERATURE ~55°F
 NUMBER OF HOURS WORKED 49 NUMBER OF EMPLOYEES 5

1. ITEMS WORKED ON (ITEM NO., DESCRIPTION, STA. TO STA., FOREMAN)
2. INSTRUCTIONS RECEIVED FROM SOLUTIA
3. INSTRUCTIONS RECEIVED FROM USEPA
4. DEVIATIONS
5. VISITORS (NAMES & TITLES)
6. EQUIPMENT
7. LUNCH MEETING COMMENTS
8. UNUSUAL EVENTS (FIRE, FLOOD, STORM, LABOR DISPUTES, ETC.)
9. REMARKS:

- ① Moved drums from slug test piezometer inst. E. of I to Judith Ln. staging area
Staked sediment sampling locations in Creek sector F
- ② K. Perry approved the number of sed. samples in Creek sector F + general locations
- ③ None
- ④ None
- ⑤ See visitors log
- ⑥ Support vehicles, rental cargo truck + drum dolly, H+S watermeter equip., staking equip.
- ⑦ None
- ⑧ None
- ⑨ None

cc: K. Perry 29 DEC 99
E. Kemper @ 1730

IF ADDITIONAL SPACE IS REQUIRED,
 RECORD ON REVERSE SIDE

DEHaverdink / DE Haverdink 29 DEC 99
 PRINTED NAME / SIGNATURE OF PREPARER / DATE

WORK FORECAST-

Work Forecast for the day/week: 30 Dec '99

Date: 29 Dec 99

Project Name: Solutia-Saugat Area 1 Project Location: Creek Sector F

Company Name: O'Brien & Gere

1. List Work Items and Locations Scheduled for Next Day/Week:

- Begin sediment depth measurements in creek sector E.
- Continue laying out sediment sampling sites in creek sector E.

CC: K. Perry 29 Dec 99
E. Kemper @ 1730

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

Thomas E. Jenkins 29 Dec 99.
Name/Signature/Date of Preparer

WORK FORECAST

Work Forecast for the day/week: 3 Jan '00

Date: 29 Dec 99

Project Name: Solutia-Sulphur Area 1

Project Location: Dead Creek, W of G.

Company Name: O'Brien & Gere

1. List Work Items and Locations Scheduled for Next Day/Week:

• Continue creek sediment sampling activities

• Continue slug test piezometer installation W. of site G.

CC: K. Perry 29 Dec 99
E. Kemper @ 1730

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

Nicholas E. Jenkins - 29 Dec. 99
Name/Signature/Date of Preparer

SAFETY MEETING FORM

(sediment sampling)
+ slug test drum movement

DATE 29 DEC 99

CONDUCTED BY / COMPANY: DE Harvard / O'Brien + Gere

PROJECT NAME Solutio - Sauget Area

PROJECT LOCATION creek segment F, E. of I

WEATHER clear

PRECIPITATION none

TEMPERATURE ~25°F

NUMBER OF HOURS WORKED —

NUMBER OF EMPLOYEES —

1 SCHEDULED WORK:

2 REFERENCES TO APPROPRIATE SECTION OF FSP & HASP:

3 HEALTH AND SAFETY ISSUES WITH SCHEDULED WORK

4 SPECIFIC HEALTH AND SAFETY ISSUES REQUIRING ATTENTION

5 COMMENTS

① Sediment sampling; drum movement from E. of I to Judith Ln.

② FSP # 5.20 HASP # 2.9

③ - Potential contact with impacted sediment + water; breathing of impacted vapors; slips / trips / falls into water or down the bank; muscle strain
- potential splashing of water from loose-top drums④ - PPE is level D with rubber boots or waders (depending on creek conditions) + pants, trucks or aprons during sampling, chemical resistant gloves, air monitoring in breathing zone using the PID, life vests in water over 2 ft. deep
- level D PPE for drum movement; check drum tops before moving; chem. resistant gloves

⑤ Segregate wastes, gross equip. decon before leaving creek, drive with caution in the area, smoking in support vehicles only.

ATTENDANCE

EMPLOYEE NAME (print)

EMPLOYEE SIGNATURE

COMPANY

Kerry Perry

Kerry Perry

Solutia

Wilson Thompson

Wilson Thompson

OBC

Cavin Wolschke

Cavin Wolschke

OBC

Nick Jenkins

Nick Jenkins

OBC

William E. Wright

William E. Wright

OBC

CC: K. Perry

29 DEC 99

E. Kemper

2:17:30

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDEDE Harvard / DE Harvard / 29 DEC 99
PRINTED NAME / SIGNATURE OF PREPARER

DATE

SITE VISITOR LOG

Solutia Inc.
Sauget Area 1
(Please Print)


[illegible]

INSPECTORS QUALITY ASSURANCE REPORT (QAR) DAILY LOG OF CONSTRUCTION - MILITARY (ER 415-1-302)	THE OCR WILL BE ATTACHED TO OR FILED WITH THE QAR.	
	REPORT NO.	078
PROJECT Solutia Sauget Area 1 Sauget, IL	DATE	30 December, 99
	CONTRACT NO.	
CONTRACTOR O'Brien Gere	WEATHER	Cloudy, Temp. 50°F
CQC Inspection phases attended and instruction given: 1) Slug Testing: No work today. 2) Downgradient Alluvial Aquifer Sampling: This task is complete. 3) Sediment Sampling: Performing sediment depth measurements at cross sections for Creek Segment F by driving a 2 inch diameter clear tube 3 to 4 feet deep into the ground then marking the color changes for the different layers. No samples are being collected at this time they are only recording the sediment depths.		
Results of QA inspections and tests, deficiencies observed, actions taken and corrective action of contractor. Include comment pertaining to contractors CQC activities. 1) The last two downgradient aquifer sample locations have been completed 2) Sediment sampling will begin after the Christmas Holiday.		
Verbal instruction given to contractor: (Include names, reactions and remarks) 1) None		
Has anything developed on the work, which might lead to a change order or finding of fact? NO <u>YES</u> 1) Piezometers for the Slug Tests are being installed outside the fill areas, the FSP section 5.14 indicates they will be installed at the fill areas. This issue has been brought to the attention of Tim Gouger(USACE) and Michael McAteer(USEPA). Erik Kemper (Weston) also noted the Question during the Preparatory Inspection Meeting on 12-6-99. A meeting was held with Mike Light discussing this issue on 12-15-99, see QAR # 70.		
Information on progress of work, causes for delays and extent of delays, weather, plant, material, etc. 1) None		
Information, instructions or actions taken not covered on QCR report or disagreement: 1) None		

SAFETY: (Include any infractions of approved safety plan, safety manual or instructions From Government personnel. Specify corrective action taken.)

1) None

REMARKS: (Include visitors to project and miscellaneous remarks pertinent to work.)

INSPECTORS'S SIGNATURE	DATE	SUPERVISOR'S INITIALS	DATE
	12-30-99		

Dec 30

Sediment Depth Measurements being taken using a 1.5" or 2" plastic tube pushed into the sediment then recording the sediment as the first color change in the material

DAILY WORK LOG

DATE 30 DEC 99

PROJECT NAME Solutia - Sargat Area 1

PROJECT LOCATION Creek Seg. F, Bottom Pit Lake

WEATHER Cloudy

PRECIPITATION None

TEMPERATURE -48°F

NUMBER OF HOURS WORKED 27.5

NUMBER OF EMPLOYEES 5

- 1 ITEMS WORKED ON (ITEM NO., DESCRIPTION, STA. TO STA., FOREMAN)
- 2 INSTRUCTIONS RECEIVED FROM SOLUTIA
- 3 INSTRUCTIONS RECEIVED FROM USEPA
- 4 DEVIATIONS
- 5 VISITORS (NAMES & TITLES)
- 6 EQUIPMENT
- 7 LUNCH MEETING COMMENTS
- 8 UNUSUAL EVENTS (FIRE, FLOOD, STORM, LABOR DISPUTES, ETC.)
- 9 REMARKS

- ① Performed sed. depth measurements in creek segment F and staked sampling locations in Bottom Pit Lake
- ② None
- ③ None
- ④ None
- ⑤ See attached visitors log
- ⑥ Support vehicles, H+S equip., monitoring equip., staking + sed. depth equip.
- ⑦ None
- ⑧ None
- ⑨ None

CC: K. Perry
E. Kemper

30 DEC 99
6:230

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

DE Howard m / DE Howard S / 30 DEC 99
PRINTED NAME / SIGNATURE OF PREPARER / DATE

WORK FORECAST

Work Forecast for the day/week: Jan 3 '00

Date: 12/30/99

Project Name: Solutia-Sauget Area 1

Project Location: W of G, CS-F

Company Name: O'Brien & Gere

1. List Work Items and Locations Scheduled for Next Day/Week:

- Perform slug-test piezometer installation W of G.
- Continue performing sediment measurements in creek section F
- ~~C~~

Note: no field work planned on 12/31/99

CC: K Perry

E. Kemper

12-30-99 @ 12:30

IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

Nicholas E. Jenkins / 12/30/99
Name/Signature/Date of Preparer

SAFETY MEETING FORM

(Sediment sampling)

DATE 30 DEC 99

CONDUCTED BY / COMPANY: DE Haverdink / O'Brien + Gere

PROJECT NAME: Solutio - Saugel Areal

PROJECT LOCATION

Creek segment F, between P17, creek seg. E

WEATHER: cloudy

PRECIPITATION

none

TEMPERATURE -40°F

NUMBER OF HOURS WORKED

NUMBER OF EMPLOYEES

1. SCHEDULED WORK:

2. REFERENCES TO APPROPRIATE SECTION OF FSP & HASP:

3. HEALTH AND SAFETY ISSUES WITH SCHEDULED WORK:

4. SPECIFIC HEALTH AND SAFETY ISSUES REQUIRING ATTENTION:

5. COMMENTS:

① Sediment sampling - staking and sed. depth measurement

② FSP # 5.20 HASP # 2.9

③ Potential contact with impacted sediment + water; breathing of impacted vapors; slips / trips / falls into water or down the bank; muscle strain

④ PPE is level D with rubber boots or waders (depending on creek conditions) pants, trucks or aprons during sampling, chemical resistant gloves, air monitoring in breathing zone using the PID, life vests in water over 2 ft. deep

⑤ Segregate wastes, grass equip. down before leaving creek, drive with caution in the area, smoking in support vehicles only.

ATTENDANCE

EMPLOYEE NAME (print)

EMPLOYEE SIGNATURE

COMPANY

John Wellenik

John Wellenik

OBG

Daren Thompson

Daren Thompson

OBG

William E. Wright

William E. Wright

OBG

Kimberly Perry

Kimberly Perry

Sol. 712

Nicolas E. Jenkins

Nicolas E. Jenkins

OBG

CC: K. Perry 30 DEC 99
E. Kemper @ 0800IF ADDITIONAL SPACE IS REQUIRED,
RECORD ON REVERSE SIDE

DE Haverdink / DE Haverdink

PRINTED NAME / SIGNATURE OF PREPARER

30 DEC 99

DATE

SITE VISITOR LOG

Solutia Inc.
Sauget Area 1
(Please Print)

[illegible]